





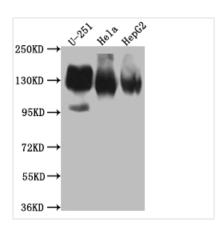


ITGAV Recombinant Monoclonal Antibody

Product Code CSB-RA279866A0HU Storage Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. Uniprot No. P06756 Immunogen A synthesized peptide derived from human Integrin alpha V Species Reactivity Human Tested Applications ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200 Relevance The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and WF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and this binding is essential for IGF1 signaling (PubMed:1967119). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integring corefromational changes and enhanced ligand binding is essential for IGF1 signaling		
Uniprot No. P06756 Immunogen A synthesized peptide derived from human Integrin alpha V Species Reactivity Human Tested Applications ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200 Relevance The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:2682778). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to PLA2GAV via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:19578119). ITGAV:ITGB3 and ITGAV:ITGB6 act as a receptor for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). Form Liquid Conjugate Non-conjugated Storage Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Purification Method Affinity-chromatography Isotype	Product Code	CSB-RA279866A0HU
Immunogen A synthesized peptide derived from human Integrin alpha V Species Reactivity Human Tested Applications ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200 Relevance The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for IGF1 signaling (PubMed:186341324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:18635536, PubMed:9578119). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding is lie (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGAV:ITGB3 and ITGAV:ITGB6 act as a receptor for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). Form Liquid Conjugate Non-conjugated Storage Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Purification Method Affinity-chromatography Isotype Rabbit IgG Clonality <td< th=""><th>Storage</th><td>Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.</td></td<>	Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Species Reactivity	Uniprot No.	P06756
Tested Applications ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200 The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding is essential for IGF1 signaling (PubMed:18635536, PubMed:25398877). ITGAV:ITGB3 and ITGAV:ITGB6 act as a receptor for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). Form Liquid Conjugate Non-conjugated Storage Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Purification Method Affinity-chromatography Isotype Rabbit IgG Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Immunogen	A synthesized peptide derived from human Integrin alpha V
Relevance The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:2082778). ITGAV:ITGB3 binds to FGF1 and this binding is essential for IGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGAV:ITGB3 and ITGAV:ITGB6 act as a receptor for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). Form Liquid Conjugate Non-conjugated Storage Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Purification Method Affinity-chromatography Isotype Rabbit IgG Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Species Reactivity	Human
fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to FGF1 and this binding is essential for IGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGAV:ITGB3 and ITGAV:ITGB6 act as a receptor for fibrillin-1 (FBM1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). Form Liquid Conjugate Non-conjugated Storage Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Purification Method Affinity-chromatography Isotype Rabbit IgG Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
ConjugateNon-conjugatedStorage BufferRabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Purification MethodAffinity-chromatographyIsotypeRabbit IgGClonalityMonoclonalProduct TypeRecombinant AntibodyImmunogen SpeciesHomo sapiens (Human)Research AreaCancer; Cardiovascular; Microbiology; Signal transduction; Stem cellsGene NamesITGAVClone No.5G3	Relevance	fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGAV:ITGB3 and ITGAV:ITGB6 act as a receptor for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion
Storage Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Purification Method Affinity-chromatography Isotype Rabbit IgG Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Form	Liquid
azide and 50% glycerol. Purification Method Affinity-chromatography Isotype Rabbit IgG Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Conjugate	Non-conjugated
Isotype Rabbit IgG Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Storage Buffer	
Clonality Monoclonal Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Purification Method	Affinity-chromatography
Product Type Recombinant Antibody Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Isotype	Rabbit IgG
Immunogen Species Homo sapiens (Human) Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Clonality	Monoclonal
Research Area Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells Gene Names ITGAV Clone No. 5G3	Product Type	Recombinant Antibody
Gene Names ITGAV Clone No. 5G3	Immunogen Species	Homo sapiens (Human)
Clone No. 5G3	Research Area	Cancer; Cardiovascular; Microbiology; Signal transduction; Stem cells
	Gene Names	ITGAV
Image	Clone No.	5G3
	Image	

CUSABIO TECHNOLOGY LLC





Western Blot

Positive WB detected in: U-251 whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate

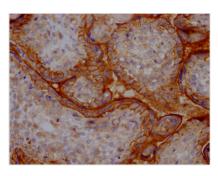
All lanes: ITGAV antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 117, 113, 112 kDa

Observed band size: 130 kDa



IHC image of CSB-RA279866A0HU diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The production process of the ITGAV recombinant monoclonal antibody comprises four steps: sequencing the gene that codes for the ITGAV monoclonal antibody, cloning the gene into a plasmid vector, transfecting the recombinant vector into a host cell line, purifying the ITGAV recombinant monoclonal antibody from the cell culture supernatant using affinity chromatography, and testing and characterizing the purified antibody. The ITGAV monoclonal antibody is produced from hybridomas that produce the ITGAV antibody. To produce the ITGAV monoclonal antibody, a synthesized peptide derived from human ITGAV is used as the immunogen. This ITGAV recombinant monoclonal antibody is recommended for ELISA, WB, and IHC applications in detecting human ITGAV protein.

The ITGAV protein is a transmembrane protein that plays a role in cell adhesion and signaling. It forms heterodimers with other integrin subunits, such as Integrin beta-1, to bind to extracellular matrix proteins, such as fibronectin and vitronectin, and modulate cell behavior. Specifically, ITGAV is involved in regulating cell migration, proliferation, differentiation, and survival, as well as angiogenesis and wound healing. Dysregulation of ITGAV has been linked to various diseases, including cancer, osteoporosis, and autoimmune disorders.