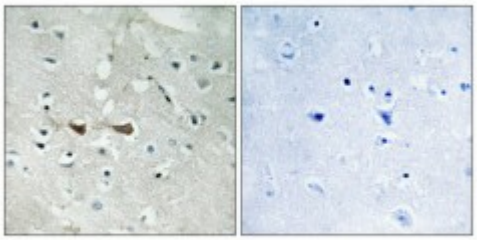
Anti-Phospho-Integrin alpha (S1027) antibody



Description	Rabbit polyclonal to Phospho-Integrin alpha4 (S1027).

Model	STJ91315
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human Integrin alpha4 around the phosphorylation site of S1027.
Immunogen Region	960-1040 aa
Gene ID	3676
Gene Symbol	ITGA4
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:5000
Specificity	Phospho-Integrin alpha4 (S1027) Polyclonal Antibody detects endogenous levels of Integrin alpha4 protein only when phosphorylated at S1027.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Integrin alpha-4 CD49 antigen-like family member D Integrin alpha-IV VLA-4 subunit alpha CD antigen CD49d
Molecular Weight	120 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6140OMIM:192975
Alternative Names	Integrin alpha-4 CD49 antigen-like family member D Integrin alpha-IV VLA-4 subunit alpha CD antigen CD49d
Function	Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. ITGA4:ITGB1 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling . ITGA4:ITGB1 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 .
Sequence and Domain Family	The SG1 motif is involved in binding to chondroitin sulfate glycosaminoglycan and cell adhesion.
Cellular Localization	Membrane. Single-pass type I membrane protein.
Post-translational Modifications	Phosphorylation on Ser-1027 inhibits PXN binding.