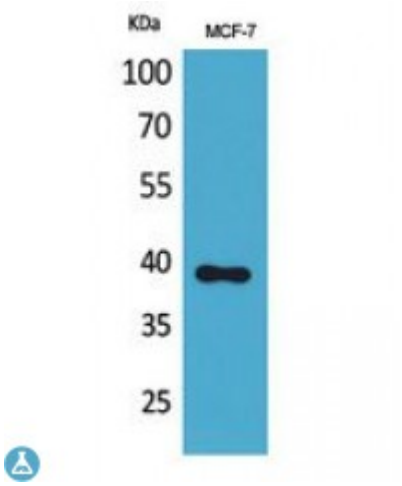
Anti-Nov antibody



Description	Rabbit polyclonal to Nov.

Model	STJ96777
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human Nov.
Immunogen Region	221-270 aa, Internal
Gene ID	4856
Gene Symbol	NOV
Dilution range	WB 1:500-1:2000IHC-P 1:100-1:300ELISA 1:20000
Specificity	Nov Polyclonal Antibody detects endogenous levels of Nov protein.
Tissue Specificity	Expressed in endiothelial cells (at protein level) . Expressed in bone marrow, thymic cells and nephroblastoma. Increased expression in Wilms tumor of the stromal type.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Protein NOV homolog NovH CCN family member 3 Insulin-like growth factor-binding protein 9 IBP-9 IGF-binding protein 9 IGFBP-9 Nephroblastoma-overexpressed gene protein homolog

Molecular Weight	39 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:7885OMIM:164958
Alternative Names	Protein NOV homolog NovH CCN family member 3 Insulin-like growth factor-binding protein 9 IBP-9 IGF-binding protein 9 IGFBP-9 Nephroblastoma-overexpressed gene protein homolog
Function	Immediate-early protein playing a role in various cellular processes including proliferation, adhesion, migration, differentiation and survival . Acts by binding to integrins or membrane receptors such as NOTCH1 . Essential regulator of hematopoietic stem and progenitor cell function . Inhibits myogenic differentiation through the activation of Notch-signaling pathway . Inhibits vascular smooth muscle cells proliferation by increasing expression of cell-cycle regulators such as CDKN2B or CDKN1A independently of TGFB1 signaling . Ligand of integrins ITGAV:ITGB3 and ITGA5:ITGB1, acts directly upon endothelial cells to stimulate pro-angiogenic activities and induces angiogenesis. In endothelial cells, supports cell adhesion, induces directed cell migration (chemotaxis) and promotes cell survival . Plays also a role in cutaneous wound healing acting as integrin receptor ligand. Supports skin fibroblast adhesion through ITGA5:ITGB1 and ITGA6:ITGB1 and induces fibroblast chemotaxis through ITGAV:ITGB5. Seems to enhance bFGF-induced DNA synthesis in fibroblasts . Involved in bone regeneration as a negative regulator . Enhances the articular chondrocytic phenotype, whereas it repressed the one representing endochondral ossification . Impairs pancreatic beta-cell function, inhibits beta-cell proliferation and insulin secretion . Plays a role as negative regulator of endothelial pro-inflammatory activation reducing monocyte adhesion, its anti-inflammatory effects occur secondary to the inhibition of NF-kappaB signaling pathway . Contributes to the control and coordination of inflammatory processes in atherosclerosis . Attenuates inflammatory pain through regulation of IL1B- and TNF-induced MMP9, MMP2 and CCL2 expression. Inhibits MMP9 expression through ITGB1 engagement .
Cellular Localization	Secreted. Cytoplasm Cell junction, gap junction. Localizes at the Gap junction in presence of GJA1/CX43.