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ITGA8 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11582b

Product Information

Application	WB, IHC-P, E
Primary Accession	P53708
Other Accession	NP_003629.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20555
Calculated MW	117474
Antigen Region	1025-1053

Additional Information

Gene ID	8516
Other Names	Integrin alpha-8, Integrin alpha-8 heavy chain, Integrin alpha-8 light chain, ITGA8
Target/Specificity	This ITGA8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1025-1053 amino acids from the C-terminal region of human ITGA8.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ITGA8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ITGA8
Function	Integrin alpha-8/beta-1 functions in the genesis of kidney and probably of other organs by regulating the recruitment of mesenchymal cells into epithelial structures. It recognizes the sequence R-G-D in a wide array of

	ligands including TNC, FN1, SPP1 TGFB1, TGFB3 and VTN. NPNT is probably its functional ligand in kidney genesis. Neuronal receptor for TNC it mediates cell-cell interactions and regulates neurite outgrowth of sensory and motor neurons.
Cellular Location	Membrane; Single- pass type I membrane protein. Cell membrane
Tissue Location	Expressed in mesenchymal cells, including alveolar myofibroblasts, kidney mesangial cells and hepatic stellar cells and vascular and visceral smooth muscle (at protein level)

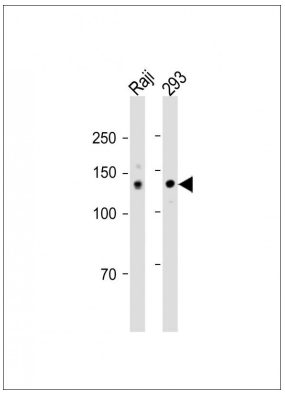
Background

Integrin alpha-8/beta-1 functions in the genesis of kidney and probably of other organs by regulating the recruitment of mesenchymal cells into epithelial structures. It recognizes the sequence R-G-D in a wide array of ligands including TNC, FN1, SPP1 TGFB1, TGFB3 and VTN. NPNT is probably its functional ligand in kidney genesis. Neuronal receptor for TNC it mediates cell-cell interactions and regulates neurite outgrowth of sensory and motor neurons.

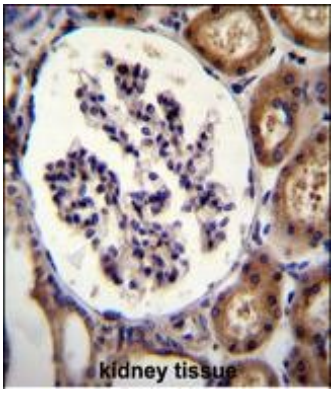
References

Benoit, Y.D., et al. Biochem. Biophys. Res. Commun. 399(3):434-439(2010)
Simon-Sanchez, J., et al. Nat. Genet. 41(12):1308-1312(2009)
Benoit, Y.D., et al. Biol. Cell 101(12):695-708(2009)
Sato, Y., et al. J. Biol. Chem. 284(21):14524-14536(2009)
Lowe, J.K., et al. PLoS Genet. 5 (2), E1000365 (2009) :

Images



All lanes: Anti-ITGA8 Antibody (C-term) at 1:2000 dilution Lane 1: Raji whole cell lysate Lane 2: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 130 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



ITGA8 Antibody (C-term) (Cat. #AP11582b)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ITGA8 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.