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# ITGA8 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11582b

## Product Information

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| **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

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| **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

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| **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 |

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| | 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) |

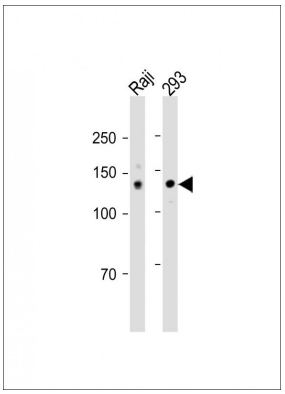
## Background

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.