

Recombinant Human ITGA8 Protein, MYC/DDK-tagged

Cat. No. ITGA8-2613H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA8 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	Integrins are heterodimeric transmembrane receptor proteins that mediate numerous cellular processes including cell adhesion, cytoskeletal rearrangement, and activation of cell signaling pathways. Integrins are composed of alpha and beta subunits. This gene encodes the alpha 8 subunit of the heterodimeric integrin alpha8beta1 protein. The encoded protein is a single-pass type 1 membrane protein that contains multiple FG-GAP repeats. This repeat is predicted to fold into a beta propeller structure. This gene regulates the recruitment of mesenchymal cells into epithelial structures, mediates cell-cell interactions, and regulates neurite outgrowth of sensory and motor neurons. The integrin alpha8beta1 protein thus plays an important role in wound-healing and organogenesis. Mutations in this gene have been associated with renal hypodysplasia/aplasia-1 (RHDA1) and with several animal models of chronic kidney disease. Alternate splicing results in multiple transcript variants encoding distinct isoforms.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	117.3 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	ITGA8 integrin, alpha 8 [Homo sapiens]
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Official Symbol	ITGA8
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Synonyms	OTTHUMP00000019207; integrin, alpha 8
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Gene ID	8516
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mRNA Refseq	NM_003638
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Protein Refseq	NP_003629
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MIM	604063
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UniProt ID	P53708
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