

# Recombinant Full Length Human ITGB7 Protein, GST-tagged

Cat. No. ITGB7-5786HF    Lot. No. (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human ITGB7 full-length ORF ( NP_000880.1, 1 a.a. - 798 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | In Vitro Cell Free System  |
| <b>Protein Length</b>   | 798 amino acids  |
| <b>Description</b>      | This gene encodes a protein that is a member of the integrin superfamily. Members of this family are adhesion receptors that function in signaling from the extracellular matrix to the cell. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The encoded protein forms dimers with an alpha4 chain or an alphaE chain and plays a role in leukocyte adhesion. Dimerization with alpha4 forms a homing receptor for migration of lymphocytes to the intestinal mucosa and Peyer's patches. Dimerization with alphaE permits binding to the ligand epithelial cadherin, a calcium-dependent adhesion molecule. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Sep 2013] |
| <b>Molecular Mass</b>   | 113.3 kDa  |
| <b>AA Sequence</b>      | MVALPMVLVLLLVLSRGESELDKIPSTGDATEWRNPHLSMLGSCQPAPSCQKCILS<br>HPSCAWCKQLNFTASGEAEARRCARREELLARGCPLEEELEPRGQQEVLQDQPLS  |

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QGARGEGATQLAPQRVVRVTLRPGEPQQLQVRFLRAEGYPVDLYYLMDSLYSMKDD  
 LERVRQLGHALLVRLQEVTHSVRIGFGSFVDKTVLPFVSTVPSKLRHPCPTRLERCQ  
 SPFSFHHVLSLTGDAQAFEREVGRQSVSGNLDSPEGGFDAILQAALCQEIQGWRNV  
 SRLLVFTSDDTFHTAGDGKLGIFMPSDGHCHLDSNGLYSRSTEFDYPVSGQVAQA  
 LSAANIQPIFAVTS AALPVYQELSKLIPKSAVGELSESSNVVQLIMDAYNSLSSTVTL  
 EHSSLPPGVHISYESQCEGPEKREGKAEDRGQC�NHVRINQTVTFWVSLQATHCLPE  
 PHLLRLRALGFSEELIVELHTLCDCNCSDTQPQAPHCSDGQGHLQCGVCSCAPGRL  
 GRLCECSVAELSSPDLESGCRAPNGTGPLCSGKGHCQCGRCSGQSSGHLCEC  
 DDAS CERHEGILCGGFGRCQCGVCHCHANRTGRACECSGDMDCISPEGGLCG  
 HGRCKNRCQCLDGYYGALCDQCPCGCKTPCERHRDCAECGAFRTGPLATNCSTA  
 CAHTNVTALAPILDDGWCKERTLDNQLFFFLVEDDARGTVVLRVRPQEKGADHTQ  
 AIVLGCVGGIVAVGLGLVLAYRLSVEIYDRREYSRFEKEQQQLNWKQDSNPLYKSAIT  
 TTINPRFQEADSPTL

|                       |   |
|-----------------------|---|
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.  |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.  |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | ITGB7 integrin, beta 7 [ Homo sapiens ] |
| <b>Official Symbol</b> | ITGB7                                   |

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|                       |  |
|-----------------------|--|
| <b>Synonyms</b>       | ITGB7; integrin, beta 7; integrin beta-7; integrin beta 7 subunit; gut homing receptor beta subunit; |
| <b>Gene ID</b>        | 3695   |
| <b>mRNA Refseq</b>    | NM_000889  |
| <b>Protein Refseq</b> | NP_000880  |
| <b>MIM</b>            | 147559   |
| <b>UniProt ID</b>     | P26010   |

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