# Integrin Alpha6 (ITGalpha6) ELISA Kit for Rabbit

## PRODUCT OVERVIEW

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| **Product Name** | Integrin alpha6 (ITGalpha6), ELISA Kit |
| **Full Product Name** | Rabbit Integrin alpha6 ELISA Kit |
| **Product Gene Name** | ITGalpha6 elisa kit |
| **Species Reactivity** | Rabbit |
| **Assay Type** | Sandwich |
| **Preparation and Storage** | Store all reagents at 2-8 degree C |
| **Molecular Weight** | 126,606 Da |
| **Chromosome Location** | Chromosome: 2; NC_000002.11 (173292314..173371181). Location: 2q31.1 |
| **OMIM** | 147556 |
| **3D Structure** | ModBase 3D Structure for P23229 |
| **Related Product Information for ITGalpha6 elisa kit** | MBS043411 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Integrin alpha6 (ITGalpha6) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ITGalpha6. The ELISA analytical biochemical technique of the MBS043411 kit is based on ITGalpha6 antibody-ITGalpha6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ITGalpha6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ITGalpha6. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of ITGalpha6 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGalpha6. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 119395742 |
| **NCBI GeneID** | 3655 |
| **NCBI Accession #** | NP_000201.2 |
| **UniProt Primary Accession #** | P23229 |
| **UniProt Secondary Accession #** | Q08443; Q0MRC7; Q14646; Q16508; Q53RX7; Q59HB7; B2RMU9; B4DG69; B4DKB8; C4AM96; G5E9H1 |
| **UniProt Related Accession #** | P23229 |
| **GenBank Nucleotide #** | NM_000210.2 |
| **NCBI Official Full Name** | integrin alpha-6 isoform b |
| **NCBI Official Synonym Full Names** | integrin, alpha 6 |
| **NCBI Official Symbol** | ITGA6 |
| **NCBI Official Synonym Symbols** | CD49f; VLA-6; ITGA6B |
| **UniProt Protein Name** | Integrin alpha-6 |

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| **UniProt Synonym Protein Names** | CD49 antigen-like family member F; VLA-6 |
| **UniProt Gene Name** | ITGA6 |
| **UniProt Entry Name** | ITA6_HUMAN |
| **NCBI Protein Information** | integrin alpha-6; integrin alpha6B; CD49 antigen-like family member F |
| **NCBI Summary for ITGalpha6** | The ITGA6 protein product is the integrin alpha chain alpha 6. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. For example, alpha 6 may combine with beta 4 in the integrin referred to as TSP180, or with beta 1 in the integrin VLA-6. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for ITGalpha6** | ITGA6: Integrin alpha-6/beta-1 is a receptor for laminin on platelets. Integrin alpha-6/beta-4 is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome. Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of an heavy and a light chain linked by a disulfide bond. Alpha-6 associates with either beta-1 or beta-4. Interacts with HPS5. Interacts with RAB21. Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoforms containing segment X1 are ubiquitously expressed. Isoforms containing segment X1X2 are expressed in heart, kidney, placenta, colon, duodenum, myoblasts and myotubes, and in a limited number of cell lines; they are always coexpressed with the ubiquitous isoform containing segment X1. In some tissues (e.g. Salivary gland), isoforms containing cytoplasmic segment A and isoforms containing segment B are detected while in others, only isoforms containing one cytoplasmic segment are found (segment A in epidermis and segment B in kidney). Belongs to the integrin alpha chain family. 8 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Receptor, misc.; Motility/polarity/chemotaxis; Membrane protein, integral; Cell adhesion<br><br>Chromosomal Location of Human Ortholog: 2q31.1<br><br>Cellular Component: cell-cell adherens junction; cell surface; focal adhesion; hemidesmosome; basal plasma membrane; plasma membrane; basement membrane; filopodium; external side of plasma membrane<br><br>Molecular Function: integrin binding; protein binding; metal ion binding; laminin binding<br><br>Biological Process: skin development; integrin-mediated signaling pathway; extracellular matrix organization and biogenesis; filopodium formation; positive regulation of apoptosis; cell-matrix adhesion; cell-substrate adhesion; cell-cell adhesion; hemidesmosome assembly; gut development; positive regulation of cell-cell adhesion; brown fat cell differentiation; cellular response to extracellular stimulus; cell-substrate junction assembly; cell adhesion mediated by integrin; positive regulation of transcription from RNA polymerase II promoter; blood coagulation; leukocyte migration; positive regulation of phosphorylation<br><br>Disease: Epidermolysis Bullosa Junctionalis With Pyloric Atresia |
| **Research Articles on ITGalpha6** | **1.** Integrin alpha6 promoter activity was elevated by 2.5-fold in PTHrP (Parathyroid hormone-related protein)-overexpressing vs. control PC-3 cells. |
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