



# ITGA6 (heavy chain, Cleaved-Arg938) rabbit pAb

|                           |  |
|---------------------------|--|
| <b>Catalog No</b>         | YP-Ab-16816  |
| <b>Isotype</b>            | IgG  |
| <b>Reactivity</b>         | Human;Rat;Mouse;   |
| <b>Applications</b>       | WB;IHC   |
| <b>Gene Name</b>          | ITGA6  |
| <b>Protein Name</b>       | ITGA6 (heavy chain, Cleaved-Arg938)  |
| <b>Immunogen</b>          | Synthesized peptide derived from human ITGA6 (heavy chain, Cleaved-Arg938)   |
| <b>Specificity</b>        | This antibody detects endogenous levels of Human ITGA6 (heavy chain, Cleaved-Arg938, protein was cleaved amino acid sequence between 938-939 )   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source</b>             | Polyclonal, Rabbit,IgG   |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.  |
| <b>Dilution</b>           | WB 1:500-2000;IHC-p 1:50-300   |
| <b>Concentration</b>      | 1 mg/ml  |
| <b>Purity</b>             | ≥90%   |
| <b>Storage Stability</b>  | -20°C/1 year   |
| <b>Synonyms</b>           | Integrin alpha-6 (CD49 antigen-like family member F;VLA-6;CD antigen CD49f)<br>[Cleaved into: Integrin alpha-6 heavy chain; Integrin alpha-6 light chain]  |
| <b>Observed Band</b>      | 100 110kD  |
| <b>Cell Pathway</b>       | Cell membrane ; Single-pass type I membrane protein . Cell membrane ; Lipid-anchor .   |
| <b>Tissue Specificity</b> | 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). Processed integrin alpha-6: Expressed at low levels in normal prostate tissue with elevated levels in prostate cancer tissue (at protein level) (PubMed:15023541). |
| <b>Function</b>           | cell motion, cell-substrate junction assembly, cell adhesion, cell-matrix adhesion, cell surface receptor linked signal transduction, integrin-mediated signaling pathway, response to extracellular stimulus, cell migration, regulation of cell-cell adhesion, positive regulation of cell-cell adhesion, biological adhesion, cell projection organization, cell projection assembly, microspike assembly, regulation of cell adhesion, cell-substrate adhesion, cellular response  |



to extracellular stimulus, cell adhesion mediated by integrin, cell junction assembly, cell junction organization, odontogenesis of dentine-containing tooth, odontogenesis, fat cell differentiation, positive regulation of cell adhesion, filopodium assembly, cell motility, brown fat cell differentiation, leukocyte migration, localization of cell,

## Background

alternative products:Additional isoforms seem to exist. There is a combination of at least four alternatively spliced domains, two extracellular (X1 and X2) and two cytoplasmic (A and B). So far detected are isoform Alpha-6X1A, isoform Alpha-6X1B and isoform Alpha-6X1X2A (minor). Experimental confirmation may be lacking for some isoforms,disease:Defects in ITGA6 are a cause of epidermolysis bullosa with pyloric atresia (EB-PA) [MIM:226730]; also known as aplasia cutis congenita with gastrointestinal atresia. EB-PA is an autosomal recessive disease characterized by mucocutaneous fragility and gastrointestinal atresia, which most commonly affects the pylorus.,function: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.,PTM:Isoforms containing segment A, but not segment B, are the major targets for PMA-induced phosphorylation. Phosphorylation occurs on 'Ser-1103' of isoform alpha-6X1X2A. Phosphorylation is not required for the induction of integrin alpha-6A/beta-1 high affinity but may reduce the affinity for ligand.,similarity:Belongs to the integrin alpha chain family.,similarity:Contains 7 FG-GAP repeats.,subunit: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.,tissue specificity: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).,

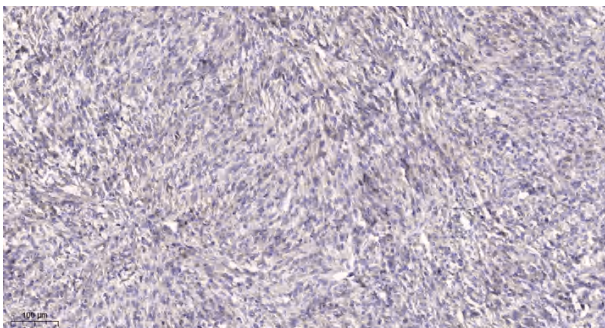
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).