



# Integrin $\alpha$ 6 Monoclonal Antibody

<b>Catalog No</b>	BYab-16843
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Bovine;Dog;Pig
<b>Applications</b>	WB;IF
<b>Gene Name</b>	ITGA6
<b>Protein Name</b>	Integrin alpha-6
<b>Immunogen</b>	Purified recombinant human Integrin $\alpha$ 6 (N-terminus) protein fragments expressed in E.coli.
<b>Specificity</b>	Integrin $\alpha$ 6 Monoclonal Antibody detects endogenous levels of Integrin $\alpha$ 6 protein.
<b>Formulation</b>	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/1000 - 1/2000. Immunofluorescence: 1/100 - 1/500. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq$ 90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ITGA6; Integrin alpha-6; CD49 antigen-like family member F; VLA-6; CD antigen CD49f
<b>Observed Band</b>	
<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>	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

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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 segme

### Background

integrin subunit alpha 6(ITGA6) Homo sapiens The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 6 subunit. This subunit may associate with a beta 1 or beta 4 subunit to form an integrin that interacts with extracellular matrix proteins including members of the laminin family. The alpha 6 beta 4 integrin may promote tumorigenesis, while the alpha 6 beta 1 integrin may negatively regulate erbB2/HER2 signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015],

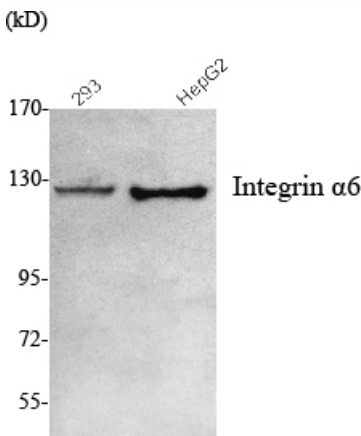
### matters needing attention

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



Western Blot analysis using Integrin  $\alpha 6$  Monoclonal Antibody against 293, HepG2 cell lysate.

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