



Cleaved-Integrin α 6 LC (E942) Polyclonal Antibody

Catalog No	YP-Ab-16806
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	ITGA6
Immunogen	The antiserum was produced against synthesized peptide derived from human ITGA6. AA range:923-972
Specificity	Cleaved-Integrin α 6 LC (E942) Polyclonal Antibody detects endogenous levels of fragment of activated Integrin α 6 LC protein resulting from cleavage adjacent to E942.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	A5355J1;alpha-E1;alpha-M29;aM29;Antigen CD13;CD 13;CD13;CD13 antigen;HML 1 antigen;HML-1 antigen;HML1 antigen;Human mucosal lymphocyte antigen 1;alpha subunit;Huminae;Integrin alpha E heavy chain;Integrin alpha E light chain;Integrin alpha E;epithelial-associated;Integrin alpha E1;Integrin alpha IEL;Integrin alpha M29;Integrin alpha-E heavy chain;Integrin alpha-IEL;Integrin;alpha E (antigen CD13;alpha polypeptide);alpha E;ITAE_HUMAN;Itgae;MGC141996;MGC18361;Mucosal lymphocyte 1 antigen;Mucosal lymphocyte antigen 1;Integrin α 6;ITGA6;Integrin alpha-6;CD49 antigen-like family member F;VLA-6;CD antigen CD49f
Observed Band	28kD
Calculated Molecular Weight	28kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Cell membrane ; Lipid-anchor .
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). Processed integrin alpha-6: Expressed at low levels in normal prostate tissue with elevated levels in prostate cancer tissue (at protein level) (PubMed:15023541).

Function

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 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 preproprotein 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

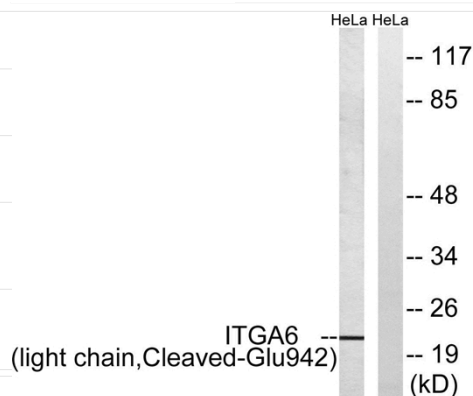
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using
Cleaved-Integrin α 6 LC (E942) Polyclonal Antibody



Western blot analysis of lysates from HeLa cells,
treated with etoposide 25uM 24h, using ITGA6 (light
chain, Cleaved-Glu942) Antibody. The lane on the right
is blocked with the synthesized peptide.