

产品名称: Cleaved-Integrin α 7 LC (E959) Rabbit Polyclonal Antibody
产品货号: APRab08997



产品概述 (Summary)

产品名称 (Production Name)	Cleaved-Integrin α 7 LC (E959) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Monkey

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ITGA7
别名 (Alternative Names)	ITGA7; Integrin alpha-7
基因 ID (Gene ID)	3679.0
蛋白 ID (SwissProt ID)	Q13683.The antiserum was produced against synthesized peptide derived from human ITGA7. AA range:940-989

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:20000-1:40000
蛋白分子量 (Molecular Weight)	25kDa

产品名称: Cleaved-Integrin α 7 LC (E959) Rabbit Polyclonal Antibody
产品货号: APRab08997

研究背景 (Background)

integrin subunit alpha 7 (ITGA7) Homo sapiens The protein encoded by this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. They mediate a wide spectrum of cell-cell and cell-matrix interactions, and thus play a role in cell migration, morphologic development, differentiation, and metastasis. This protein functions as a receptor for the basement membrane protein laminin-1. It is mainly expressed in skeletal and cardiac muscles and may be involved in differentiation and migration processes during myogenesis. Defects in this gene are associated with congenital myopathy. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Feb 2009], alternative products: Additional isoforms seem to exist. There is a combination of at least five alternatively spliced domains, three extracellular (X1, X2 and D) and two cytoplasmic (A and B). A third potential alternatively spliced cytoplasmic domain (C) does not appear to be expressed. In vitro generated isoform X2C shows function. So far detected are isoform Alpha-7X1A, isoform Alpha-7X2B (major), isoform Alpha-7X2DB (minor) and minor isoforms containing segment X1X2. Experimental confirmation may be lacking for some isoforms, developmental stage: In renewing intestinal epithelium, expression of isoforms containing segment B correlates with the onset of enterocytic differentiation., disease: Defects in ITGA7 are associated with a form of congenital myopathy; a group of heterogeneous muscle disorders which are thought to result from abnormal muscle development. Muscle weakness is either non-progressive or slowly progressive and apparent from birth or early infancy., function: Integrin alpha-7/beta-1 is the primary laminin receptor on skeletal myoblasts and adult myofibers. During myogenic differentiation, it may induce changes in the shape and mobility of myoblasts, and facilitate their localization at laminin-rich sites of secondary fiber formation. It is involved in the maintenance of the myofibers cytoarchitecture as well as for their anchorage, viability and functional integrity. Isoform Alpha-7X2B and isoform Alpha-7X1B promote myoblast migration on laminin 1 and laminin 2/4, but isoform Alpha-7X1B is less active on laminin 1 (In vitro), PTM: ADP-ribosylated on at least two sites of the extracellular domain in skeletal myotubes., 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-7 associates with beta-1., tissue specificity: Isoforms containing segment A are predominantly expressed in skeletal muscle. Isoforms containing segment B are abundantly expressed in skeletal muscle, moderately in cardiac muscle, small intestine, colon, ovary and prostate and weakly in lung and testes. Isoforms containing segment X2D are expressed at low levels in fetal and adult skeletal muscle and in cardiac muscle, but are not detected in myoblasts and myotubes. In muscle fibers isoforms containing segment A and B are expressed at myotendinous and neuromuscular junctions; isoforms containing segment C are expressed at neuromuscular junctions and at extrasynaptic sites. Isoforms containing segments X1 or X2 or, at low levels, X1X2 are expressed in fetal and adult skeletal muscle (myoblasts and myotubes) and cardiac muscle.,

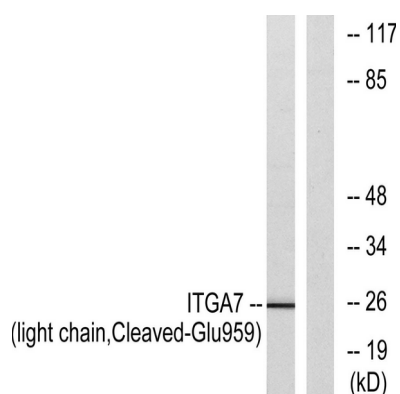
研究领域 (Research Area)

Focal adhesion; ECM-receptor interaction; Regulates Actin and Cytoskeleton; Hypertrophic cardiomyopathy (HCM); Arrhythmogenic right ventricular cardiomyopathy (ARVC); Dilated cardiomyopathy;

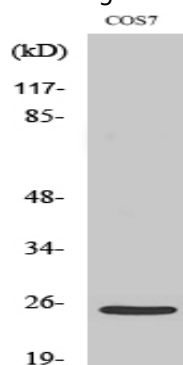
产品名称: Cleaved-Integrin $\alpha 7$ LC (E959) Rabbit Polyclonal Antibody
产品货号: APRab08997



图片 (Image Data)



Western blot analysis of lysates from COS7 cells, treated with etoposide 25uM 1h, using ITGA7 (light chain, Cleaved-Glu959) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-Integrin $\alpha 7$ LC (E959) Polyclonal Antibody

注意事项 (Note)

For research use only .