10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Integrin alpha 7 LC Antibody

Catalog # AP51291

Product Information

Application	WB
Primary Accession	Q13683
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	128948

Additional Information

Gene ID	3679
Other Names	Integrin alpha-7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Integrin alpha 7 LC. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

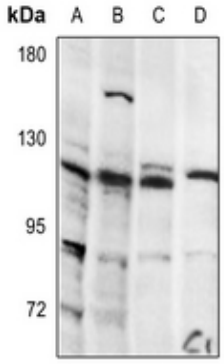
Name	ITGA7
Function	Integrin alpha-7/beta-1 is the primary laminin receptor on skeletal myoblasts and adult myofibers. During myogenic differentiation, it may induce changes in the shape and mobility of myoblasts, and facilitate their localization at laminin-rich sites of secondary fiber formation. It 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). Acts as a Schwann cell receptor for laminin-2. Acts as a receptor of COMP and mediates its effect on vascular smooth muscle cells (VSMCs) maturation (By similarity). Required to promote contractile phenotype acquisition in differentiated airway smooth muscle (ASM) cells.
Cellular Location	Membrane; Single-pass type I membrane protein.

Tissue Location	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

References

Leung E.,et al.Biochem. Biophys. Res. Commun. 243:317-325(1998).
Hayashi Y.K.,et al.Nat. Genet. 19:94-97(1998).
Vizirianakis I.S.,et al.Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.
Vignier N.,et al.Biochem. Biophys. Res. Commun. 260:357-364(1999).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).

Images



Western blot analysis of Integrin alpha 7 LC expression in HCT116 (A), MCF7 (B), SGC7901 (C), PC3 (D) whole cell lysates. (Predicted band size: 128 kD; Observed band size: 129 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.