

**Integrin alpha 7 LC Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51291**

**Specification**

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**Integrin alpha 7 LC Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">O13683</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25 KDa

**Integrin alpha 7 LC Antibody - Additional Information**

**Gene ID** 3679

**Other Names**

Integrin alpha-7, Integrin alpha-7 heavy chain, Integrin alpha-7 light chain, Integrin alpha-7 70 kDa form, ITGA7

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Integrin alpha 7 LC Antibody - 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

### **Integrin alpha 7 LC Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Integrin alpha 7 LC Antibody - Images**

#### **Integrin alpha 7 LC Antibody - Background**

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### **Integrin alpha 7 LC Antibody - 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).