

Anti-ITGA7 / Integrin Alpha 7 Antibody (clone 8G2)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17988

Product Information

Application	WB, IHC-P, E
Primary Accession	Q13683
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Names	8G2
Calculated MW	128948
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	3679
Alias Symbol	ITGA7
Other Names	ITGA7, Alpha 7b integrin, Integrin alpha-7, Integrin alpha 7 chain, Integrin, alpha 7
Target/Specificity	Human ITGA7 / Integrin Alpha 7
Reconstitution & Storage	Protein A purified
Precautions	Anti-ITGA7 / Integrin Alpha 7 Antibody (clone 8G2) is for research use only and not for use in diagnostic or therapeutic procedures.

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

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