

ARG22484 anti-Laminin alpha 2 antibody [5H2]

Package: 25 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [5H2] recognizes Laminin alpha 2 This antibody recognizes the ~80 kDa fragment of laminin subunit alpha-2, also known as the laminin M chain, laminin-12 subunit alpha, laminin-2 subunit alpha, laminin-4 subunit alpha or merosin heavy chain. Laminins are trimeric basement glycoproteins consisting of three non-identical multi-domain chains (alpha, beta and gamma) each encoded by a distinct gene. The alpha-2 chain is a subunit of Laminin-2 and Laminin-4, widely expressed in the basement membrane of skeletal muscle and peripheral nerves. Laminins are thought to mediate cell attachment, migration, proliferation and differentiation with other extracellular matrix components. Mutation of the LAMA2 gene can lead to the development of Merosin-deficient congenital muscular dystrophy 1A (MDC1A), a condition characterized by hypotonia, proximal weakness, hyporeflexia and difficulty walking (Tazek et al. 2003).
Tested Reactivity	Hu, Mk, Rb
Tested Application	ELISA, ICC/IF, IHC-Fr, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	5H2
Isotype	IgG1
Target Name	Laminin alpha 2
Species	Human
Immunogen	Purified Human Merosin.
Conjugation	Un-conjugated
Alternate Names	Laminin-12 subunit alpha; Laminin-2 subunit alpha; Laminin-4 subunit alpha; Merosin heavy chain; Laminin M chain; LAMM; Laminin subunit alpha-2

Application Instructions

Application table	Application	Dilution
	ELISA	1:25000 - 1:100000
	ICC/IF	Assay-dependent
	IHC-Fr	1:2000 - 1:10000
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	IHC-Fr: Acetone is recommended. 8 µm fixed cryostat muscle sections have been used, with an HRP conjugated secondary antibody for detection. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Buffer	Ascites and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LAMA2
Gene Full Name	laminin, alpha 2
Background	Laminin, an extracellular protein, is a major component of the basement membrane. It is thought to mediate the attachment, migration, and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. It is composed of three subunits, alpha, beta, and gamma, which are bound to each other by disulfide bonds into a cross-shaped molecule. This gene encodes the alpha 2 chain, which constitutes one of the subunits of laminin 2 (merosin) and laminin 4 (s-merosin). Mutations in this gene have been identified as the cause of congenital merosin-deficient muscular dystrophy. Two transcript variants encoding different proteins have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. [UniProt]
Calculated Mw	344 kDa