

Rat anti-Mouse Emilin-1 Monoclonal Antibody | anti-Emilin1 antibody

Rat Anti-Mouse Emilin-1

CATALOG # AAA14943	HOST Rat	REACTIVITY Mouse	APPLICATIONS Western Blot, Immunohistochemistry
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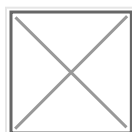
PRODUCT SYNONYMS

Emilin-1; Monoclonal Antibody; Rat Anti-Mouse Emilin-1; Elastin microfibril interface-located protein 1; anti-Emilin1 antibody

PRODUCT SPECIFICATIONS

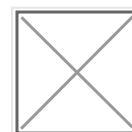
Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Clone Number	IgG2a/kappa, C11A8
Purity/Purification	Protein G purified
Form/Format	Lyophilized; PBS
Sequence Length	1017
Applicable Applications for anti-Emilin1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot: Use at 2-10 ug/ml IF/IHC: Frozen sections Optimal dilutions should determined by each laboratory for each application
Immunogen	recombinant mouse Emilin-1
Preparation	Monoclonals were produced with the help of Wistar rat using recombinant murine Emilin-2 as immunizing antigen
Reconstitution	Centrifuge vial prior to opening. Reconstitute in sterile water to concentration of 0.1-1.0 mg/ml.
Preparation and Storage	The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8 degree C. Frozen aliquots are stable for at least 6 months when stored at -20 degree C. AVOID REPEATED FREEZE AND THAW CYCLES!

IMAGES



IF (Immunofluorescence)

MILIN1 is expressed in association with lymphatic vessels. Cryostat sections of normal mouse tissues stained with anti-EMILIN1 (green) antibodies. In all mouse tissues and organs examined, EMILIN1 was uniformly distributed in the stroma. In the skin, EMILIN1 staining colocalizes with LYVE-1-positive lymphatic vessels surrounding hair follicles. In the small intestine, EMILIN1 colocalizes with LYVE-1-positive lacteals and submucosal lymphatic vessels. At higher magnification, in the lung and lymph nodes, it is more evident that EMILIN1 is distributed at the abluminal surfaces of LECs. In the lymph node, EMILIN1-positive fibers connecting LECs to the surrounding ECM are evident.



IF (Immunofluorescence)

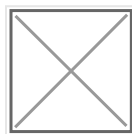
Positive staining of EMILIN1 (green) in mouse lymphatic endothelial cells (LAEC). Nuclei are stained in blue. Scale bar 38 um

**IF (Immunofluorescence)**

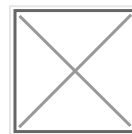
Positive staining of EMILIN1 (green) in mouse fibroblasts (NIH 3T3). Actin cytoskeleton is stained in red, nuclei in blue. Scale bar 28 μ m

**IF (Immunofluorescence)**

Positive staining for EMILIN1 (red) in mouse skin. Blue, nuclei; Scale bar: 37.00 μ m

**IF (Immunofluorescence)**

Positive staining for EMILIN1 (green) in mouse lymph node. In red, lymphatic vessels positive for Lyve-1. Yellow represents the close association of EMILIN1 with lymphatic vessel structures. Scale bar: 37.00 μ m

**IF (Immunofluorescence)**

Positive staining for EMILIN1 (green) in mouse lung tissue is both detected in lung parenchymal fibers and associated with lymphatic vessel structures. Lyve-1 (red) is used as lymphatic vessel marker. Blue, nuclei. Scale bar: 37.00 μ m

ADDITIONAL INFORMATION

Related Product Information for anti-Emilin1 antibody	Emilin-1 is an extracellular matrix glycoprotein localized at sites where elastin and microfibrils are in proximity. It may be responsible for anchoring smooth muscle cells to elastic fibers. It has cell adhesive capacity. Emilin-1 may have a role in the regulation of blood vessel assembly since it inhibits TGFB signaling by binding specifically to the pro-TGFB precursor and preventing its maturation by furin convertases in the extracellular space. TGFB proteins are the main regulators of blood vessel development and maintenance.
References	1. Colombatti A et al, J Cell Biol 100:18, 1985. 3. Doliana R et al, J Biol Chem 274:16773, 1999. 4. Zanetti M et al, Mol Cell Biol 24:638, 2004 5. Zacchigna L et al, Cell 124:929, 2006 6. Danussi C et al, Mol Cell Biol 28:4026, 2008. 7. Danussi C et al, J Cell Biol, in press

NCBI AND UNIPROT INFORMATION

NCBI GI #	19527130
NCBI GeneID	100952
NCBI Accession #	NP_598679.1
NCBI GenBank Nucleotide #	NM_133918.2
UniProt Accession #	Q99K41
NCBI Official Full Name	EMILIN-1
NCBI Official Synonym Full Names	elastin microfibril interfacer 1
NCBI Official Symbol	Emilin1
NCBI Official Synonym Symbols	gp115; AW229038; BB105748; EMILIN-1; 5830419M17Rik
NCBI Protein Information	EMILIN-1; elastin microfibril interface located protein 1; elastin microfibril interface-located protein 1
UniProt Protein Name	EMILIN-1
UniProt Gene Name	Emilin1
UniProt Synonym Gene Names	Elastin microfibril interfacer 1
UniProt Entry Name	EMIL1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/emilin-1-antibody-clone-igg2a-kappa-c11a8-western-blot-immunohistochemistry-elisa/14943>