

## Mouse anti-Human Emilin-2 Monoclonal Antibody | anti-EMILIN2 antibody

Mouse Anti-Human Emilin-2

|                              |                      |                            |                                                                               |
|------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA79105</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Immunofluorescence, Western Blot</b> |
|------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Emilin-2; Monoclonal Antibody; Mouse Anti-Human Emilin-2; Elastin microfibril interface-located protein-2; anti-EMILIN2 antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Mouse                                                                                                                                                                                                                                |
| Reactivity                                        | Human                                                                                                                                                                                                                                |
| Clonality                                         | Monoclonal                                                                                                                                                                                                                           |
| Isotype                                           | IgG <sub>2b</sub> /kappa                                                                                                                                                                                                             |
| Clone Number                                      | 828B3B3                                                                                                                                                                                                                              |
| Purity/Purification                               | Protein G purified                                                                                                                                                                                                                   |
| Form/Format                                       | Lyophilized; PBS                                                                                                                                                                                                                     |
| Sequence Length                                   | 1053                                                                                                                                                                                                                                 |
| Applicable Applications for anti-EMILIN2 antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                               |
| Immunogen                                         | recombinant protein gC1q domain of Emilin-2                                                                                                                                                                                          |
| Preparation                                       | Monoclonal antibodies were produced with the help of BALB/c mice using recombinant protein gC1q domain of Emilin-2.                                                                                                                  |
| Reconstitution                                    | Centrifuge vial prior to opening. Reconstitute in sterile water to a 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. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of human Emilin-2 (green) in human colon-rectal tissue (frozen section). Nuclear staining with TO-PRO3 in blue. Scale bar: 37.00 um.



#### WB (Western Blot)

Western blot on recombinant protein obtained from supernatant of cells transduced with an Emilin-2 adenoviral construct.

ADDITIONAL INFORMATION

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|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EMILIN2 antibody | Emilins (elastin microfibril interface located proteins) are extracellular matrix glycoproteins that localize to sites with proximity to elastin and microfibrils. They consist of an N-terminal cysteine-rich EMI domain and a conserved C-terminal gC1q-like domain. Emilin-1 is abundant in elastin-rich tissues such as blood vessels, skin, heart and lung. It influences placenta formation and initial organogenesis with a later role in interstitial connective tissue. Emilin-2 is larger than Emilin-1 and contains a unique proline-rich domain. It is likely involved in the process of elastogenesis. Multimerin-2 (also known as Emilin-3 or EndoGlyx-1) is expressed during embryonic development. Multimerin-1 (also known as Emilin-4) is expressed in platelets and the endothelium of blood vessels and may act as a carrier protein for platelet factor V. Emilin-5 is encoded by the Emilin-3 gene and is sometimes referred to as Emilin-3. It contains the N-terminal cysteine-rich EMI domain but lacks the C-terminal gC1q-like domain. Emilin-5 is expressed in human mesenchymal stem cells and plays an important role in skeletal development. |
| References                                            | 1. Doliana R et al, J Biol Chem 274:16773, 1999. 2. Mongiat M et al, J. Biol. Chem. 275:25471, 2000. 3. Doliana R et al, J Biol Chem 276:12003, 2001. 4. Braghetta P et al, Matrix Biol 21:603, 2002. 5. Spessotto P et al; J Biol Chem 278:6160, 2003. 6. Kishore U et al, Trends Immunol 25:551, 2004. 7. Verdone G et al, J Biomol NMR 29:91, 2004. 8. Zanetti M et al, Mol Cell Biol 24:638, 2004. 9. Mongiat et al, MCB 27:7176, 2007. 10. Mongiat et al, Neoplasia 12:294, 2010.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 60498978                                                                                       |
| NCBI GeneID                      | 84034                                                                                          |
| NCBI Accession #                 | NP_114437.2                                                                                    |
| NCBI GenBank Nucleotide #        | NM_032048.2                                                                                    |
| UniProt Accession #              | Q9BXX0; Q8NBH3; Q96JQ4; B2RMY3                                                                 |
| NCBI Official Full Name          | EMILIN-2                                                                                       |
| NCBI Official Synonym Full Names | elastin microfibril interfacier 2                                                              |
| NCBI Official Symbol             | EMILIN2                                                                                        |
| NCBI Official Synonym Symbols    | FOAP-10; EMILIN-2                                                                              |
| NCBI Protein Information         | EMILIN-2; extracellular glycoprotein EMILIN-2; elastin microfibril interface-located protein 2 |
| UniProt Protein Name             | EMILIN-2                                                                                       |
| UniProt Gene Name                | EMILIN2                                                                                        |
| UniProt Synonym Gene Names       | Elastin microfibril interfacier 2                                                              |
| UniProt Entry Name               | EMIL2_HUMAN                                                                                    |

**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.