

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Transgelin/TAGLN in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 859108
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Transgelin/TAGLN Ala2-Ser201 Accession # Q01995
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TAGLN (Transgelin; also 22 kDa Actin-binding protein, WS3-10 and Smooth muscle protein 22 alpha) is a 22-24 kDa cytosolic member of the calponin (calcium-binding and calmodulin-binding troponin T-like protein) family of molecules. It is expressed in both visceral and vascular smooth muscle, fibroblasts, cardiac myocytes, and potentially in breast duct plus prostate epithelium. TAGLN is associated with the actin stress fibers and appears to both suppress MMP-9 production and downmodulate Ca⁺⁺-independent smooth muscle contraction. Human TAGLN is 201 amino acids (aa) in length. It contains one CH/calponin homology domain (aa 24-137), and an actin-binding calponin-like repeat/CLIK (aa 175-200). There is one utilized phosphorylation site at Tyr193, plus two utilized acetylation sites in the N-terminus. Three potential isoform variants are reported, one that shows an alternative start site at Met111, a second that contains a new start site 10 aa upstream of the standard site, and a third that possesses a 58 aa substitution for aa 97-201. Full-length human and mouse TAGLN share 97% aa sequence identity.

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