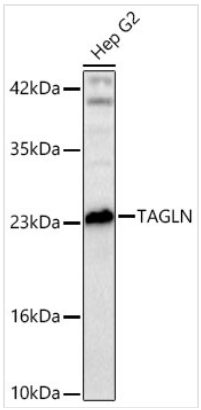
TAGLN Antibody – Rabbit Polyclonal

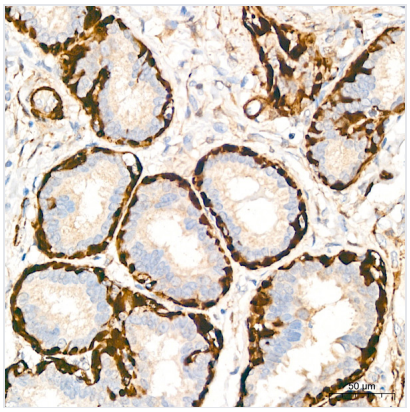
PRODUCT OVERVIEW

Product Name	TAGLN, Polyclonal Antibody
Full Product Name	TAGLN Rabbit pAb
Product Gene Name	anti-TAGLN antibody
Product Synonym Names	SM22; SMCC; TAGLN1; WS3-10; SM22-alpha
Immunogen Sequence	AAEDYGVIKT DMFQTVDLFE GKDMAAVQRT LMALGSLAVT KNDGHYRGDP NWFMKKAQEH KREFTESQLQ EGKHVIGLQM GSNRGASQAG MTGYGRPRQI IS
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 23kDa Observed MW: 23kDa
OMIM	600818
3D Structure	ModBase 3D Structure for Q01995
Cross Reactivity	Human, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 100-201 of human TAGLN (NP_003177.2-).
Product Categories/Family for anti-TAGLN antibody	Signal Transduction; Cell Biology Developmental Biology; Cytoskeleton; Microfilaments; Neuroscience; Calcium Signaling; Cardiovascular; Heart; Contractility; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TAGLN antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), ELISA (EIA)
Application Notes for anti-TAGLN antibody	WB: 1:500-1:1000 IHC-P: 1:2000-1:10000 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-TAGLN antibody	This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C-terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the actin filament and changes in cytoskeletal organization.
Other Notes	Small volumes of anti-TAGLN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

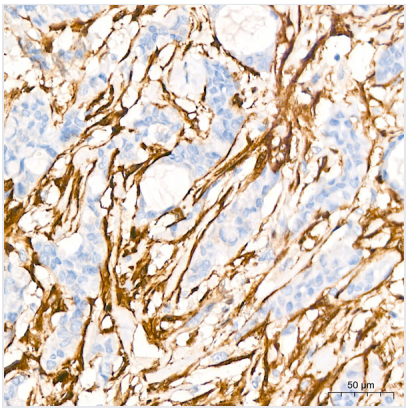
Searchable Terms for TAGLN purchase	MBS9148712 is an antibody targeting TAGLN. Also known as TAGLN Rabbit pAb. Reactive in Human. Host: Rabbit.



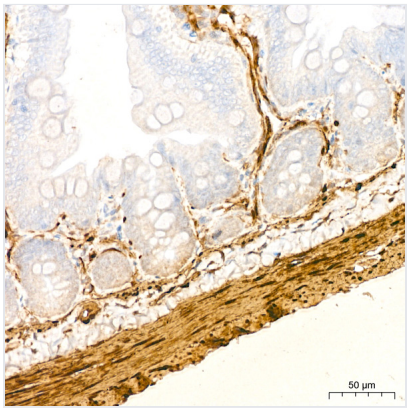
Western Blot (WB) of anti-TAGLN antibody
Western blot analysis of lysates from Hep G2 cells using TAGLN Rabbit pAb (MBS9148712) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time:10s.



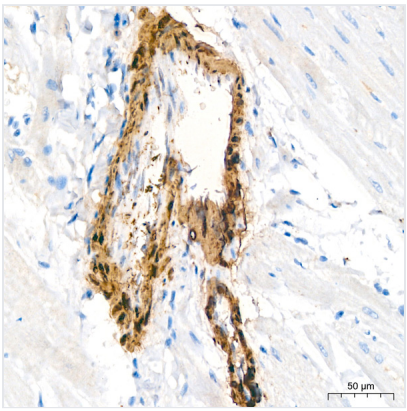
Immunohistochemistry (IHC) of anti-TAGLN antibody
Immunohistochemistry analysis of paraffin-embedded Human breast tissue using TAGLN Rabbit pAb (MBS9148712) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-TAGLN antibody
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using TAGLN Rabbit pAb (MBS9148712) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-TAGLN antibody
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using TAGLN Rabbit pAb (MBS9148712) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-TAGLN antibody
Immunohistochemistry analysis of paraffin-embedded Rat heart tissue using TAGLN Rabbit pAb (MBS9148712) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAGLN. It may not necessarily be applicable to this product.

NCBI GI #	48255907
NCBI GeneID	6876
NCBI Accession #	NP_001001522.1
UniProt Primary Accession #	Q01995
UniProt Secondary Accession #	O15542
UniProt Related Accession #	Q01995
GenBank Nucleotide #	NM_001001522.1
UniProt Protein Name	Transgelin
UniProt Synonym Protein Names	22 kDa actin-binding protein; Protein WS3-10; Smooth muscle protein 22-alpha
Protein Family	Transgelin
UniProt Gene Name	TAGLN
UniProt Synonym Gene Names	SM22; WS3-10; SM22-alpha
UniProt Entry Name	TAGL_HUMAN
UniProt Comments for TAGLN	TAGLN: Actin cross-linking/gelling protein. Involved in calcium interactions and contractile properties of the cell that may contribute to replicative senescence. Belongs to the calponin family. Protein type: Nuclear receptor co-regulator; Motility/polarity/chemotaxis; Actin-binding Chromosomal Location of Human Ortholog: 11q23.2 Cellular Component: cytoplasm Molecular Function: actin filament binding; protein binding Biological Process: muscle development; epithelial cell differentiation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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