10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Transgelin (SM22-alpha) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone TAGLN/247]
Catalog # AH12372

Product Information

Application	IF, FC, IHC-P
Primary Accession	Q01995
Other Accession	6876, 410977
Reactivity	Human, Mouse, Rabbit, Pig, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	TAGLN/247
Calculated MW	22611

Additional Information

Gene ID	6876
Other Names	Transgelin, 22 kDa actin-binding protein, Protein WS3-10, Smooth muscle protein 22-alpha, SM22-alpha, TAGLN, SM22, WS3-10
Application Note	IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Transgelin (SM22-alpha) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TAGLN
Synonyms	SM22, WS3-10
Function	Actin cross-linking/gelling protein (By similarity). Involved in calcium interactions and contractile properties of the cell that may contribute to replicative senescence.
Cellular Location	Cytoplasm.

Background

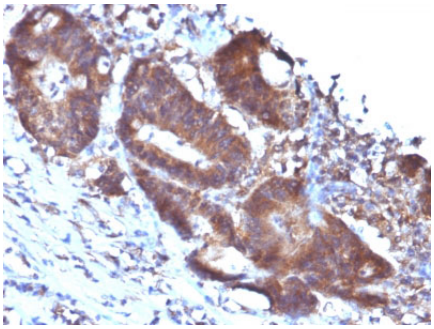
This MAb recognizes a 22kDa protein, identified as Transgelin, also designated SM22-alpha. It may cross-react with SM22-beta. Transgelin is expressed abundantly in smooth muscle cells. The human

transgelin gene encodes a 201 amino acid protein that contains nuclear factor-binding motifs known to regulate transcription in smooth muscle. During embryogenesis, transgelin is expressed in smooth, cardiac and skeletal muscle, but is restricted during late fetal development and adulthood to all vascular and visceral smooth muscle cells and low levels of expression in heart. Transgelin is down regulated in several transformed cell lines, indicating that a reduction of transgelin expression may be an early indicator of the onset of transformation. Transgelin also binds Actin, causing Actin fibers to gel within minutes of binding. Binding of transgelin to Actin occurs at a ratio of 1:6 Actin monomers.

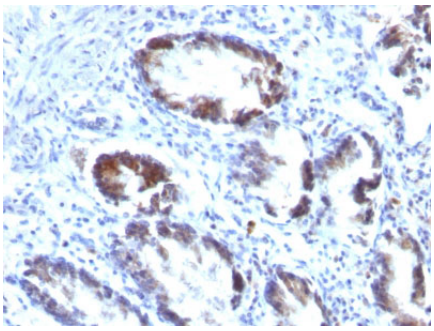
References

Shapland, C., et al. 1993. Purification and properties of transgelin: a transformation and shape change sensitive Actin-gelling protein. J. Cell Biol. 121: 1065-1073

Images



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Transgelin Monoclonal Antibody (TAGLN/247)



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Transgelin Monoclonal Antibody (TAGLN/247)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.