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

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

Specification

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

Application	**IHC-P, IF, FC**
Primary Accession	Q01995
Other Accession	6876, 410977
Reactivity	**Human, Mouse, Rabbit, Pig, Bovine**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**22kDa KDa**

Transgelin (SM22-alpha) Antibody - With BSA and Azide - 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
IHC-P~~N/A<br \>IF~~1:50~200<br \>FC~~1:10~50

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.

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

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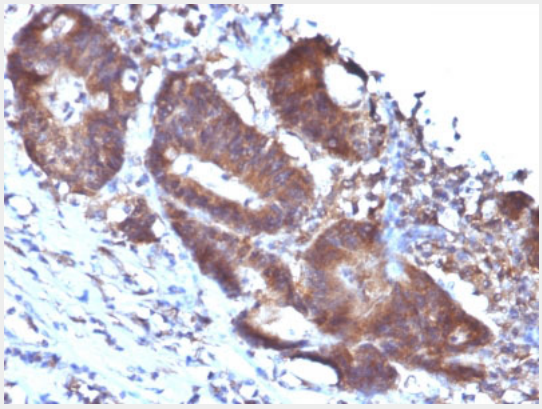
Transgelin (SM22-alpha) Antibody - With BSA and Azide - Protocols

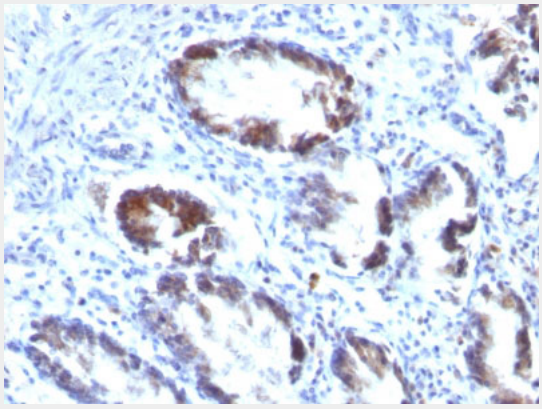
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

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

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