

Product Datasheet

Transgelin/TAGLN/SM22 alpha Antibody (TAGLN/247) NBP2-44435-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-44435-0.1mg

Transgelin/TAGLN/SM22 alpha Antibody (TAGLN/247)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	TAGLN/247
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	22 kDa

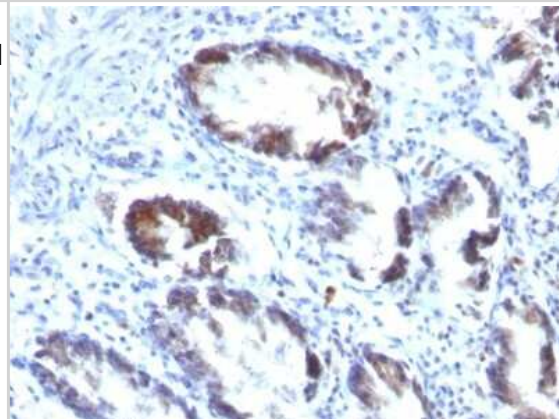
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47688) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	6876
Gene Symbol	TAGLN
Species	Human, Mouse, Porcine, Bovine, Rabbit
Specificity/Sensitivity	This monoclonal antibody 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.
Immunogen	Recombinant full-length human Transgelin/TAGLN/SM22 alpha protein. (Uniprot: Q01995)

Product Application Details	
Applications	Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 0.5-1 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

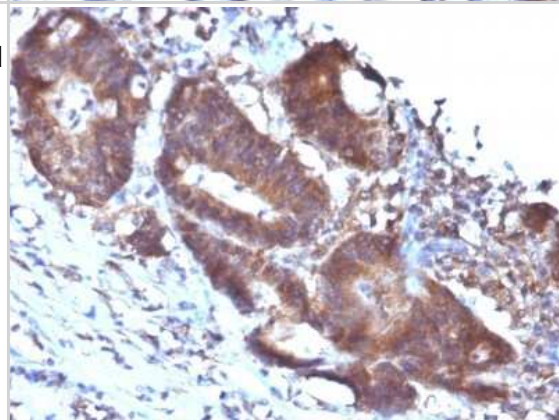


Images

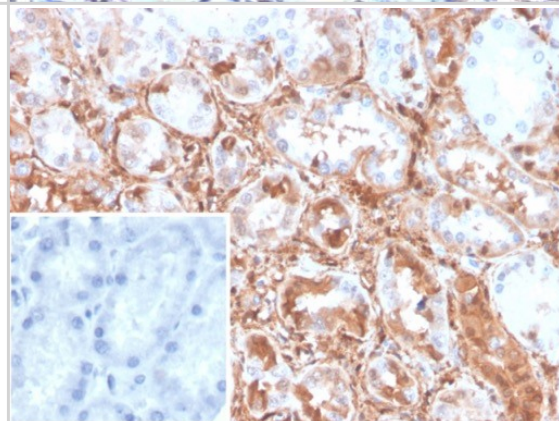
Immunohistochemistry-Paraffin: Transgelin/TAGLN/SM22 alpha Antibody (TAGLN/247) [NBP2-44435] - Human Colon Carcinoma stained with Transgelin Monoclonal Antibody (TAGLN/247)



Immunohistochemistry-Paraffin: Transgelin/TAGLN/SM22 alpha Antibody (TAGLN/247) [NBP2-44435] - Human Colon Carcinoma stained with Transgelin Monoclonal Antibody (TAGLN/247)



Formalin-fixed, paraffin-embedded human kidney stained with Transgelin/TAGLN/SM22 alpha antibody (TAGLN/247). Inset: PBS instead of primary antibody; secondary only negative control.



Publications

Morini S, Pla-Palacín I, Sainz-Arnal P Et al. Parallel Isolation and Characterization of Porcine Smooth Muscle, Endothelial and Mesenchymal Stromal Cells for Bioengineering Applications Research Square 2021-11-12 (ICC/IF, FLOW, Porcine)



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Products Related to NBP2-44435-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-45267-0.1mg	Recombinant Human Transgelin/TAGLN/SM22 alpha His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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