

# Product Datasheet

## Transgelin/TAGLN/SM22 alpha Antibody (SPM606) NBP2-44436-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-44436-0.1mg**

Transgelin/TAGLN/SM22 alpha Antibody (SPM606)

| Product Information     |                          |
|-------------------------|--------------------------|
| Unit Size               | 0.1 mg                   |
| Concentration           | 0.2 mg/ml                |
| Storage                 | Store at 4C.             |
| Clonality               | Monoclonal               |
| Clone                   | SPM606                   |
| 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                   |

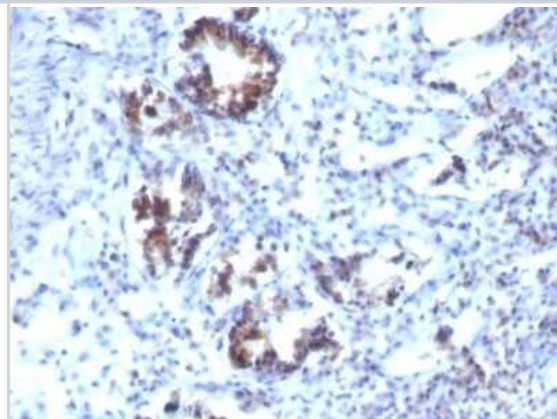
| Product Description     |  |
|-------------------------|--|
| Description             | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47689)<br><br>Antibody with 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, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence  |
| Recommended Dilutions       | Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunofluorescence 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 (SPM606) [NBP2-44436] - Human Colon Carcinoma stained with Transgelin Monoclonal Antibody (SPM606)



## Publications

Allawzi A, McDermott I, Delaney C et al. Redistribution of EC-SOD resolves bleomycin-induced inflammation via increased apoptosis of recruited alveolar macrophages FASEB J. 2019-12-01 [PMID: 31560857]

Details:

Citation used the Azide and BSA Free format of this antibody.



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### **Products Related to NBP2-44436-0.1mg**

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|                  |   |
|------------------|---|
| 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 |

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### **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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