

Product Datasheet

Transgelin/TAGLN/SM22 alpha Antibody NB600-507

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB600-507**Transgelin/TAGLN/SM22 alpha Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	6876
Gene Symbol	TAGLN
Species	Human, Mouse, Rat
Reactivity Notes	This antibody has been successfully used in Western blot in Rat (PMID: 27531064). Use in Mouse reported in scientific literature (PMID: 32134397).
Specificity/Sensitivity	NP_003177.2 and NP_001001522.1 represent identical protein. The transgelin protein is found in fibroblasts and smooth muscle and is known as a transformation or shape change protein that is involved with actin cross-linking. Transgelin is one of the earliest markers of differentiated smooth muscle cells and recent evidence suggests that transgelin acts as a tumor suppressor.
Immunogen	Peptide with sequence C-MTGYGRPRQIIS corresponding to C-Terminus according to NP_003177.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA, Knockdown Validated
Recommended Dilutions	Western Blot 0.1 - 1 ug/mL, Immunohistochemistry, Immunohistochemistry-Paraffin 2.5 ug/mL, Peptide ELISA 1:4000, Knockdown Validated
Application Notes	Use in Immunohistochemistry reported in scientific literature (PMID: 31965901). Knockdown validation (PMID: 32134397).

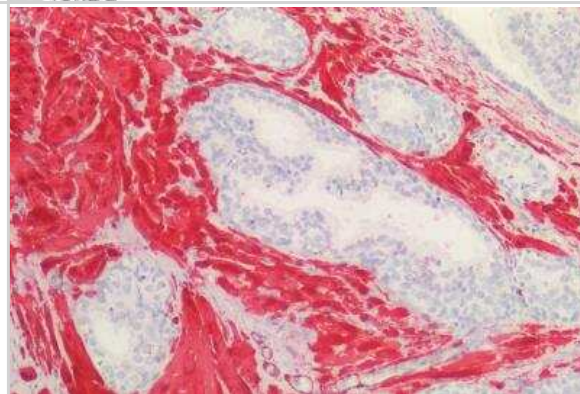


Images

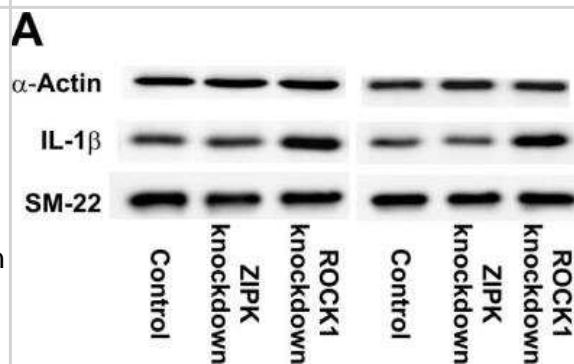
Western Blot: Transgelin/TAGLN/SM22 alpha Antibody [NB600-507] - Staining of Human Testes lysate (35 ug protein in RIPA buffer). Antibody at 0.3 ug/mL. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

Immunohistochemistry-Paraffin: Transgelin/TAGLN/SM22 alpha Antibody [NB600-507] - Staining of paraffin embedded Human Prostate. Antibody at 2.5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: Transgelin/TAGLN/SM22 alpha Antibody [NB600-507] - Effects of ROCK1 and ZIPK knockdown on IL-1beta protein expression. IL-1beta protein expression in control cells and cells transfected with ZIPK or ROCK1 siRNA was examined by western blotting. Two representative western blots showing the levels of IL-1beta in control UASMC and in UASMC 48 h after transfection with siRNAs to ZIPK or ROCK1. Two loading controls were used: alpha-actin and SM-22. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0116969>) licensed under a CC-BY license.



Publications

Walsh MP, Thornbury K, Cole WC et al. Rho-associated kinase plays a role in rabbit urethral smooth muscle contraction, but not via enhanced myosin light chain phosphorylation *Am J Physiol Renal Physiol* 2011-01-01 [PMID: 20861082] (WB)

PUtz S, Barthel LS, Frohn M et al. Caldesmon ablation in mice causes umbilical herniation and alters contractility of fetal urinary bladder smooth muscle *The Journal of general physiology* 2021-07-05 [PMID: 34115104]

Li J, Liu H, Takagi S et al. Renal protective effects of empagliflozin via inhibition of EMT and aberrant glycolysis in proximal tubules *JCI Insight* 2020-03-26 [PMID: 32134397] (WB, KD, Mouse)

Takagaki Y, Lee SM, Dongqing Z et al. Endothelial autophagy deficiency induces IL6 - dependent endothelial mesenchymal transition and organ fibrosis *Autophagy* 2020-01-22 [PMID: 31965901] (WB, IF/IHC)

Deng JT, Bhaidani S, Sutherland C Rho-associated kinase and zipper-interacting protein kinase, but not myosin light chain kinase, are involved in the regulation of myosin phosphorylation in serum-stimulated human arterial smooth muscle cells *PLoS ONE* 2019-12-13 [PMID: 31834925] (WB, Human)

Hong K, Zhao G, Hong Z et al. Mechanical activation of angiotensin II type 1 receptors causes actin remodelling and myogenic responsiveness in skeletal muscle arterioles. *J. Physiol. (Lond.)*. 2016-08-17 [PMID: 27531064] (WB, Rat)

Thibodeau JF, Holterman CE, He Y et al. Vascular smooth muscle-specific EP4 receptor deletion in mice exacerbates angiotensin II-induced renal injury. *Antioxid. Redox Signal.* 2016-06-01 [PMID: 27245461]

Herencia C, Diaz-Tocados JM, Jurado L et al. Procaine Inhibits Osteo/Odontogenesis through Wnt/b-Catenin Inactivation. *PLoS ONE* 2016-06-04 [PMID: 27257912]

Abd-Elrahman KS, Colinas O, Walsh EJ et al. Abnormal myosin phosphatase targeting subunit 1 phosphorylation and actin polymerization contribute to impaired myogenic regulation of cerebral arterial diameter in the type 2 diabetic Goto-Kakizaki rat. *J. Cereb. Blood Flow Metab.* 2015-12-31 [PMID: 26721393] (WB, Rat)

Nishida W, Kitami Y, Abe M, Hiwada K. Gene cloning and nucleotide sequence of SM22 alpha from the chicken gizzard smooth muscle. *Biochem Int* 1991-03-01 [PMID: 1872880]

Colinas O, Moreno-Dominguez A, Zhu HL et al. alpha5-Integrin-mediated cellular signaling contributes to the myogenic response of cerebral resistance arteries. *Biochem. Pharmacol.* 2015-08-14 [PMID: 26278977] (WB, Rat)

El-Yazbi AF, Abd-Elrahman KS, Moreno-Dominguez A. PKC-mediated cerebral vasoconstriction: role of myosin light chain phosphorylation versus actin cytoskeleton reorganization *Biochem. Pharmacol.* 2015-04-27 [PMID: 25931148] (WB, Rat)

More publications at <http://www.novusbio.com/NB600-507>





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Products Related to NB600-507

NB800-PC1	HeLa Whole Cell Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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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