

Product Datasheet

alpha-Smooth Muscle Actin Antibody NB600-531-0.1ml

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB600-531-0.1ml**alpha-Smooth Muscle Actin Antibody**

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.6) and 1.0% BSA
Target Molecular Weight	42 kDa
Product Description	
Host	Rabbit
Gene ID	59
Gene Symbol	ACTA2
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 27621060) as well as rat (23893166). Predicted by homology: bovine, chicken, frog, porcine, and rabbit.
Marker	Mesenchymal Cell Marker
Specificity/Sensitivity	This alpha-sma antibody stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained. It reacts with tumors arising from smooth muscles and myoepithelial cells.
Immunogen	Alpha-Smooth Muscle Actin Antibody is made to a synthetic peptide corresponding to N-terminus of human alpha smooth muscle isoform of actin.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:400, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating
Application Notes	Use in Flow reported in scientific literature (PMID:34571434). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 25783396). ; Western Blot (PMID 27029074). ; ICC/IF (PMID 26417067). and IHC free-floating sections (25919028). .



Publications

Chang YT, Peng HY, Hu CM et al. Pancreatic cancer-derived small extracellular vesical ezrin activates fibroblasts to exacerbate cancer metastasis through STAT3 and YAP-1 signaling pathways *Molecular oncology* 2023-05-12 [PMID: 37171030] (IHC, Mouse)

Takahashi J, Mizutani T, Sugihara H et al. Suspension culture in a rotating bioreactor for efficient generation of human intestinal organoids *Cell reports methods* 2022-11-21 [PMID: 36452871] (IF/IHC, Human)

Chen YI, Chang CC, Hsu MF et al. Homophilic ATP1A1 binding induces activin A secretion to promote EMT of tumor cells and myofibroblast activation *Nature communications* 2022-05-26 [PMID: 35618735] (IHC-P, Mouse)

Song MH, Choi SC, Noh JM et al. LEFTY-PITX2 signaling pathway is critical for generation of mature and ventricular cardiac organoids in human pluripotent stem cell-derived cardiac mesoderm cells *Biomaterials* 2021-09-21 [PMID: 34571434] (FLOW, Human)

Brosseau JP, Sathe AA, Wang Y, et al. Human cutaneous neurofibroma matrisome revealed by single-cell RNA sequencing *Acta neuropathologica communications* 2021-01-07 [PMID: 33413690]

Jayachandran I, Sundararajan S, Venkatesan S et al. Asymmetric dimethylarginine (ADMA) accelerates renal cell fibrosis under high glucose condition through NOX4/ROS/ERK signaling pathway *Sci Rep* 2020-09-29 [PMID: 32994511] (WB, Rat)

Kayalar O, Oztay F, Ongen HG Gastrin-releasing peptide induces fibrotic response in MRC5s and proliferation in A549s *Cell Commun. Signal* 2020-06-18 [PMID: 32552754] (WB, Human)

Kaya S Protective effects of hesperetin on lipopolysaccharide-induced acute lung injury in a rat model *Turk Gogus Kalp Dama* 2020-04-20 [PMID: 30807747] (IF/IHC, IHC-P, Rat)

Yang SS, Ma S, Dou H et al. Breast cancer-derived exosomes regulate cell invasion and metastasis in breast cancer via miR-146a to activate cancer associated fibroblasts in tumor microenvironment *Exp. Cell Res.* 2020-04-05 [PMID: 32268136]

Zhou Z, Zhou Q, Wu X, et al. VCAM-1 Secreted from Cancer-Associated Fibroblasts Enhances the Growth and Invasion of Lung Cancer Cells through AKT and MAPK Signaling *Cancer Letters* 2020-01-01 [PMID: 31904479] (WB)

Davaadelger B, Choi MR, Singhal H et al. BRCA1 mutation influences progesterone response in human benign mammary organoids *Breast Cancer Res.* 2019-11-26 [PMID: 31771627] (IHC-P, Human)

Mazur C, Powers B, Zasadny K et al. Brain pharmacology of intrathecal antisense oligonucleotides revealed through multimodal imaging *JCI Insight* 2019-10-17 [PMID: 31619586] (IHC-Fr, Rat)

More publications at <http://www.novusbio.com/NB600-531>





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Primary Antibodies are guaranteed for 1 year from date of receipt.

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