

# Product Datasheet

## alpha-Smooth Muscle Actin Antibody (E184) NB110-55432

Unit Size: 0.1 ml

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

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**NB110-55432**

alpha-Smooth Muscle Actin Antibody (E184)

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	E184
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	49% PBS, 0.05% BSA and 50% Glycerol
Product Description	
Host	Rabbit
Gene ID	59
Gene Symbol	ACTA2
Species	Human, Mouse
Reactivity Notes	Human and Mouse.
Marker	Mesenchymal Cell Marker
Specificity/Sensitivity	A synthetic peptide corresponding to N-terminus of human Alpha-actin 3 was used as immunogen. This only detects actin in smooth muscle in immunohistochemistry.
Immunogen	Synthetic peptide corresponding to N-terminus (Human)
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Immunohistochemistry 1:1000-1:2000, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin
Application Notes	This antibody is useful for Immunohistochemistry (PMID: 21635249).



## Publications

Krishnan A, Abdullah TS, Mounajjed T et al. A longitudinal study of whole body, tissue, and cellular physiology in a mouse model of fibrosing NASH with high fidelity to the human condition. *Am. J. Physiol. Gastrointest. Liver Physiol.* 2017-06-01 [PMID: 28232454] (IHC-P, Mouse)

Hermann S, Kuhlmann MT, Starsichova A et al. Imaging Reveals the Connection Between Spontaneous Coronary Plaque Ruptures, Atherothrombosis, and Myocardial Infarctions in HypoE/SRBI-/- Mice. *J. Nucl. Med.* 2016-09-01 [PMID: 27127225]

Akiho Hirotada, Tokita Yohei, Nakamura Kazuhiko et al. Involvement of interleukin-17A-induced hypercontractility of intestinal smooth muscle cells in persistent gut motor dysfunction. *PLoS One* 2014-01-01 [PMID: 24796324] (ICC/IF, Mouse)

Nakamura I, Zakharia K, Banini BA et al. Brivanib Attenuates Hepatic Fibrosis In Vivo and Stellate Cell Activation In Vitro by Inhibition of FGF, VEGF and PDGF Signaling. *PLoS ONE* 2014-04-08 [PMID: 24710173] (IHC-P, Mouse)

Dunham RM, Thapa M, Velazquez VM et al. Hepatic stellate cells preferentially induce Foxp3+ regulatory T cells by production of retinoic acid. *J Immunol.* 2013-03-01 [PMID: 23359509] (ICC/IF, Mouse)

Krishnan A, Li X, Kao WY et al. Lumican, an extracellular matrix proteoglycan, is a novel requisite for hepatic fibrosis *Lab Invest* 2012-09-24 [PMID: 23007134] (IF/IHC, Mouse)

Mabbott NA, Kenneth Baillie J, Kobayashi A et al. Expression of mesenchyme-specific gene signatures by follicular dendritic cells: insights from the meta-analysis of microarray data from multiple mouse cell populations *Immunology* 2011-08-01 [PMID: 21635249] (ICC/IF, IF/IHC, Mouse)

Charlton M, Krishnan A, Viker K et al. Fast food diet mouse: novel small animal model of NASH with ballooning, progressive fibrosis, and high physiological fidelity to the human condition. *Am. J. Physiol. Gastrointest. Liver Physiol.* 301(5):G825-834. 2011-11-01 [PMID: 21836057]





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General: [novus@novusbio.com](mailto:novus@novusbio.com)

### **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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