

# Product Datasheet

## alpha-Smooth Muscle Actin Antibody (4A8-2H3) - Azide and BSA Free H00000059-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 4

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**H00000059-M02**

alpha-Smooth Muscle Actin Antibody (4A8-2H3) - Azide and BSA Free

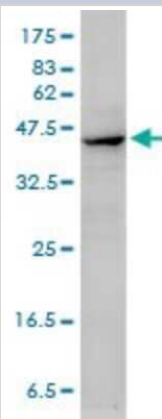
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4A8-2H3
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Target Molecular Weight	42 kDa

Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	59
Gene Symbol	ACTA2
Species	Human
Marker	Mesenchymal Cell Marker
Specificity/Sensitivity	ACTA2 (4A8-2H3)
Immunogen	Alpha-Smooth Muscle Actin Antibody (4A8-2H3) is made to ACTA2 (AAH17554.1, 1 a.a. ~ 377 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQ KDSYVGDEAQSKRGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPT LLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGD GVTHNVPIYEGYAlphaIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKE KLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIG MESAGIHETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPS TMKIKIIPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRKCF
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

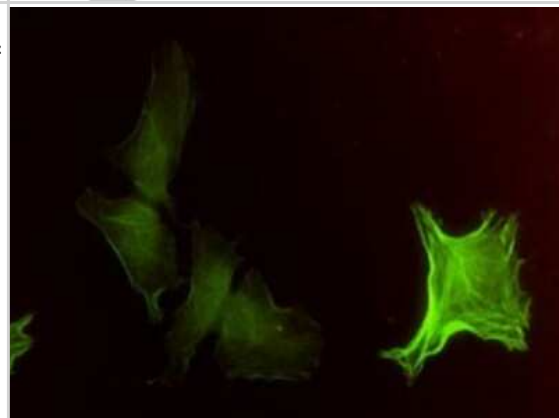
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence
Application Notes	Antibody reactivity against tissue lysate and recombinant protein for WB. It has been used for IF and ELISA.

## Images

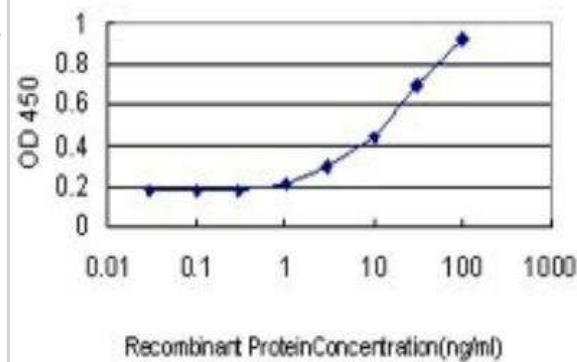
Western Blot: alpha-Smooth Muscle Actin Antibody (4A8-2H3) [H00000059-M02] - Western blot analysis of alpha-Smooth Muscle Actin expression in human omentum, serous carcinoma, blotted with alpha-Smooth Muscle Actin Antibody (4A8-2H3). The band indicates an observed molecular weight of 42 kDa.



Immunocytochemistry/Immunofluorescence: alpha-Smooth Muscle Actin Antibody (4A8-2H3) [H00000059-M02] - Immunofluorescence analysis of alpha-Smooth Muscle Actin on HeLa cell. Antibody concentration 1 - 10 ug/ml.



ELISA: alpha-Smooth Muscle Actin Antibody (4A8-2H3) [H00000059-M02] - Detection limit for recombinant GST tagged alpha-Smooth Muscle Actin Antibody is approximately 1ng/ml as a capture antibody.



## Publications

Wael E, Islam F Histopathological and biochemical alterations of the parotid gland induced by experimental hypothyroidism in adult male rats and the possible therapeutic effect of Nigella sativa oil. *Tissue Cell*. 2020-04-11 [PMID: 32746983]

Park MJ, Park Y, Choi JW et al. Establishment of a humanized animal model of systemic sclerosis in which T helper-17 cells from patients with systemic sclerosis infiltrate and cause fibrosis in the lungs and skin *Experimental & molecular medicine* 2022-09-01 [PMID: 36175484] (IHC-P)

Lino Cardenas CL, Henaoui IS, Courcot E et al. miR-199a-5p Is Upregulated during Fibrogenic Response to Tissue Injury and Mediates TGFbeta-Induced Lung Fibroblast Activation by Targeting Caveolin-1. *PLoS Genet*. 2013-02-14 [PMID: 23459460]

Van der Hauwaert C, Savary G, Gnemmi V et al. Isolation and Characterization of a Primary Proximal Tubular Epithelial Cell Model from Human Kidney by CD10/CD13 Double Labeling. *PLoS One*. 2013-06-14 [PMID: 23799132]



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### **Products Related to H0000059-M02**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
H0000059-P01-10ug	Recombinant Human alpha-Smooth Muscle Actin GST (N-Term) 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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