

Product Datasheet

Alpha Actinin 4 Antibody (4D10) - Azide and BSA Free H00000081-M01

Unit Size: 0.1 mg

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

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H00000081-M01

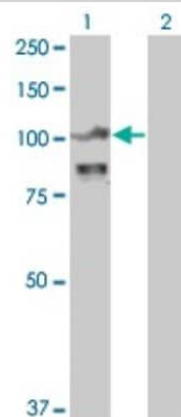
Alpha Actinin 4 Antibody (4D10) - Azide and BSA Free

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	4D10
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	81
Gene Symbol	ACTN4
Species	Human, Mouse, Rat, Monkey
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	ACTN4 - actinin, alpha 4
Immunogen	ACTN4 (NP_004915, 592 a.a. ~ 701 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. KEAQRIAESNHIKLSGSPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQ SNEHLRRQFASQANVVGPIWQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVD YK
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF, IHC-P and ELISA.

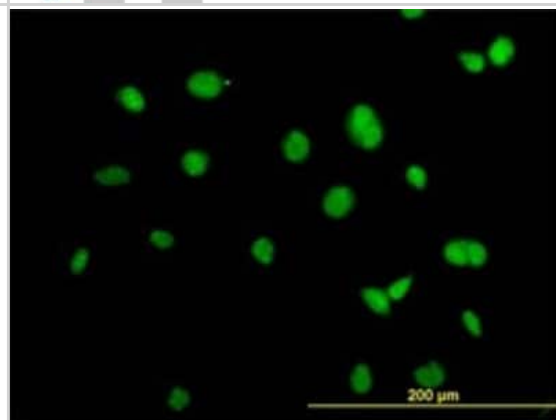


Images

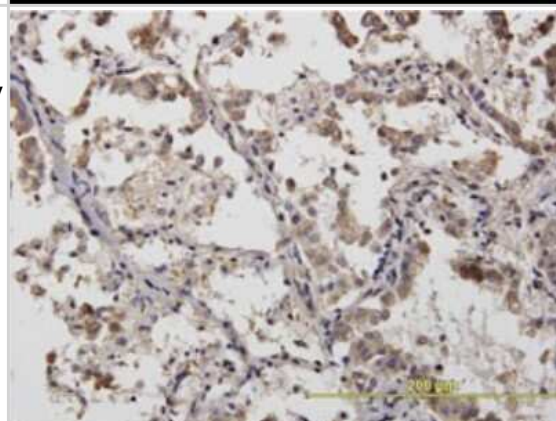
Western Blot: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - Analysis of ACTN4 expression in transfected 293T cell line by ACTN4 monoclonal antibody (M01), clone 4D10. Lane 1: ACTN4 transfected lysate (104.9 KDa). Lane 2: Non-transfected lysate.



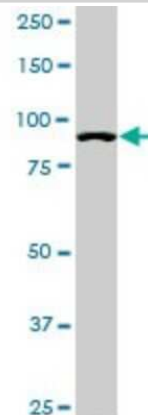
Immunocytochemistry/Immunofluorescence: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - Analysis of monoclonal antibody to ACTN4 on HeLa cell. Antibody concentration 20 ug/ml.



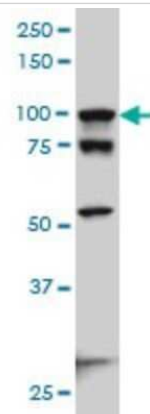
Immunohistochemistry-Paraffin: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - Analysis of monoclonal antibody to ACTN4 on formalin-fixed paraffin-embedded human lung adenocarcinoma. Antibody concentration 3 ug/ml.



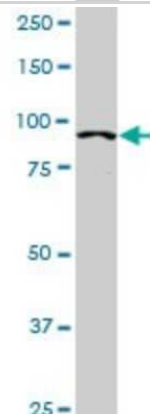
Western Blot: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - ACTN4 monoclonal antibody (M01), clone 4D10. Analysis of ACTN4 expression in PC-12.



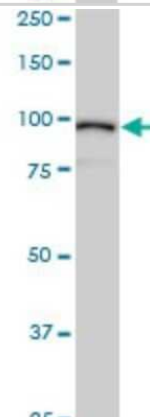
Western Blot: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - ACTN4 monoclonal antibody (M01), clone 4D10 Analysis of ACTN4 expression in Hela S3 NE.



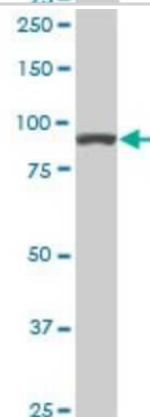
Western Blot: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - ACTN4 monoclonal antibody (M01), clone 4D10. Analysis of ACTN4 expression in Raw 264.7.



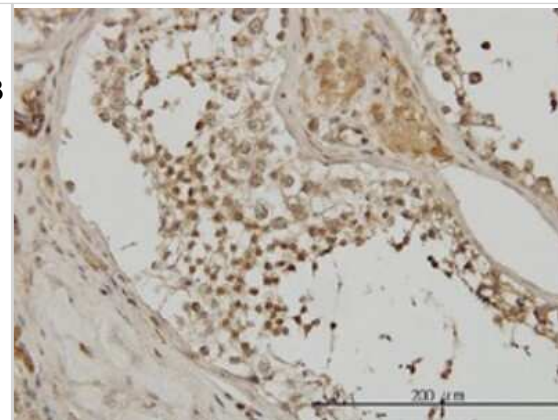
Western Blot: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - ACTN4 monoclonal antibody (M01), clone 4D10. Analysis of ACTN4 expression in MCF-7.



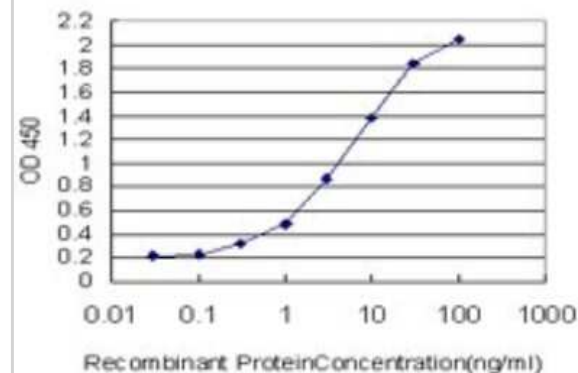
Western Blot: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - ACTN4 monoclonal antibody (M01), clone 4D10. Analysis of ACTN4 expression in NIH/3T3.



Immunohistochemistry-Paraffin: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - Analysis of monoclonal antibody to ACTN4 on formalin-fixed paraffin-embedded human testis. Antibody concentration 3 ug/ml.



ELISA: Alpha Actinin 4 Antibody (4D10) [H00000081-M01] - Detection limit for recombinant GST tagged ACTN4 is approximately 0.1ng/ml as a capture antibody.



Publications

Xu X, Honda K, Miura N et al. Actinin-4 splice variant - a complementary diagnostic and prognostic marker of pancreatic neuroendocrine neoplasms. *J Cancer*. 2020-02-10 [PMID: 32127958]

Aguilar-Hernandez N, Silva-Ayala D, Lopez S, and Arias CF The actin cytoskeleton is important for rotavirus internalization and RNA genome replication. *Virus Res*. 2019-04-09 [PMID: 30639190]

Shiraishi H, Fujiwara Y, Kakuya T et al. Actinin-4 protein overexpression as a predictive biomarker in adjuvant chemotherapy for resected lung adenocarcinoma. *Biomark Med* 2017-06-29 [PMID: 28658966]

Yamada S, Yanamoto S, Yoshida H et al. RNAi-mediated down-regulation of alpha-actinin-4 decreases invasion potential in oral squamous cell carcinoma. *Int J Oral Maxillofac Surg*. 2009-11-11 [PMID: 19913389]



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Products Related to H0000081-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H0000081-P01-10ug	Recombinant Human Alpha Actinin 4 GST (N-Term) Protein

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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