

Mouse ACTN4 Monoclonal Antibody | anti-ACTN4 antibody

ACTN4 (Alpha-actinin-4, Non-muscle alpha-actinin 4, F-actin Cross-linking Protein) (FITC)

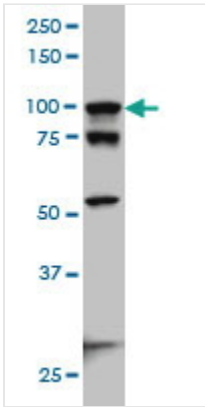
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA25009	Mouse	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

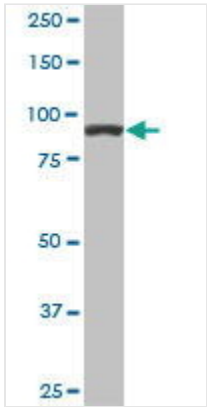
ACTN4; Monoclonal Antibody; ACTN4 (Alpha-actinin-4; Non-muscle alpha-actinin 4; F-actin Cross-linking Protein) (FITC); anti-ACTN4 antibody

PRODUCT SPECIFICATIONS

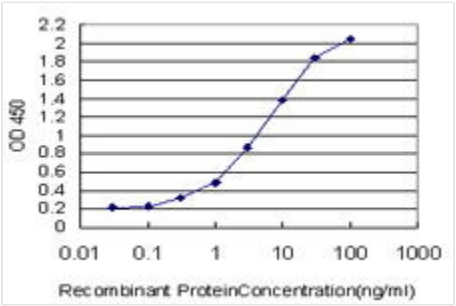
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4D10
Specificity	Recognizes human ACTN4. Species Crossreactivity: mouse and rat.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Applicable Applications for anti-ACTN4 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IF: 20ug/ml Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa592-701 from human ACTN4 (NP_004915) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KEAQRIAESNHIKLSGSNPYTTVPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQANVVGWPWIQTKMEEIGRISIEMNGTLEDQLSHLKQ
Conjugate	FITC
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to re-freezing.



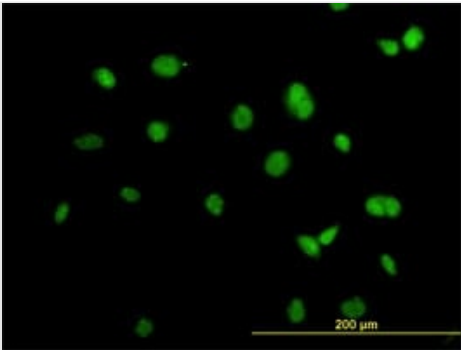
WB (Western Blot)
ACTN4 monoclonal antibody Western Blot analysis of ACTN4 expression in HeLa NE.



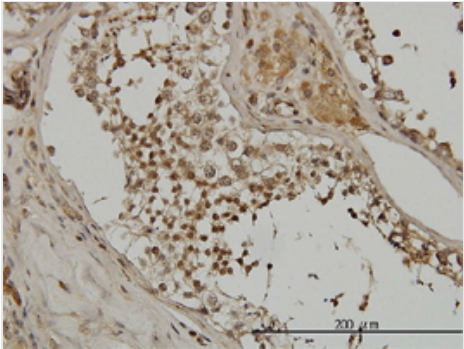
WB (Western Blot)
ACTN4 monoclonal antibody Western Blot analysis of ACTN4 expression in NIH/3T3.



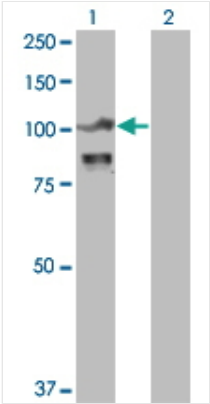
Application Data
Detection limit for recombinant GST tagged ACTN4 is ~0.1ng/ml as a capture antibody.



IF (Immunofluorescence)
Immunofluorescence of monoclonal antibody to ACTN4 on HeLa cell. [antibody concentration 20ug/ml].



IHC (Immunohistochemistry)
Immunoperoxidase of monoclonal antibody to ACTN4 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3ug/ml].



WB (Western Blot)
Western Blot analysis of ACTN4 expression in transfected 293T cell line by ACTN4 monoclonal antibody. Lane 1: ACTN4 transfected lysate (104.9kD). Lane 2: Non-transfected lysate.

ADDITIONAL INFORMATION

Product Categories/Family for anti-ACTN4 antibody	Antibodies; Actin
References	1. RNAi-mediated down-regulation of alpha-actinin-4 decreases invasion potential in oral squamous cell carcinoma. Yamada S, Yanamoto S, Yoshida H, Yoshitomi I, Kawasaki G, Mizuno A, Nemoto TK.Int J Oral Maxillofac Surg. 2009 Nov 11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12025678
NCBI GeneID	81
NCBI Accession #	NP_004915
NCBI GenBank Nucleotide #	NM_004924
UniProt Accession #	O43707; O76048; A4K467; D6P XK4
Molecular Weight	59,579 Da
NCBI Official Full Name	alpha-actinin-4 isoform 1
NCBI Official Synonym Full Names	actinin alpha 4
NCBI Official Symbol	ACTN4
NCBI Official Synonym Symbols	FSGS; FSGS1; ACTININ-4
NCBI Protein Information	alpha-actinin-4
UniProt Protein Name	Alpha-actinin-4
UniProt Gene Name	ACTN4
UniProt Entry Name	ACTN4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/actn4-antibody-clone-4d10-immunofluorescence-immunohistochemistry-western-blot-elisa/25009>