

alpha Actinin 4 Recombinant Rabbit Monoclonal Antibody (JU20-23)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	JU20-23
Conjugate	Unconjugated
Immunogen	Synthetic peptide within Human alpha Actinin 4 aa 1-50
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2810070

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1:100-1:500	1 Publication
Flow Cytometry (Flow)	1:50-1:100	-
Immunoprecipitation (IP)	1:10-1:50	-

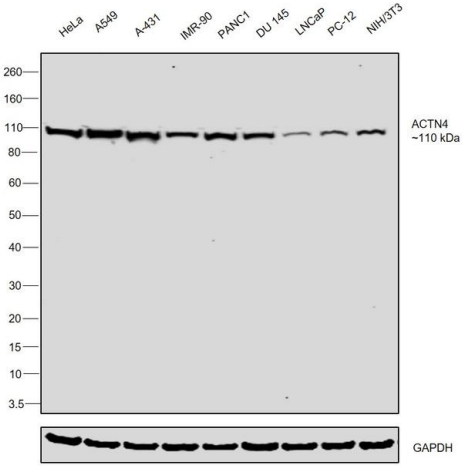
Product Specific Information

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For alpha Actinin 4 Recombinant Rabbit Monoclonal Antibody (JU20-23)

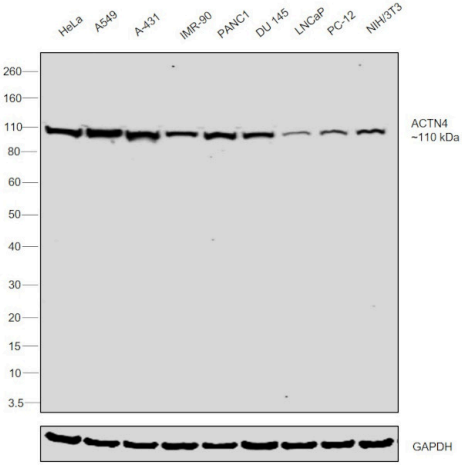
alpha Actinin 4 Antibody (MA5-32794) in WB

Western Blot was performed using Anti-alpha Actinin 4 Recombinant Rabbit Monoclonal Antibody (JU20-23) (Product # MA5-32794) and a ~110 kDa band corresponding to Alpha-actinin-4 was observed across cell lines tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), A549 (Lane 2), A-431 (Lane 3), IMR-90 (Lane 4), PANC-1 (Lane 5), DU 145 (Lane 6), LNCaP (Lane 7), PC-12 (Lane 8) and NIH/3T3 (Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The Blot was probed with the primary antibody (1: 2000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). <https://doi.org/10.1016/j.bbrc.2019.12.084>



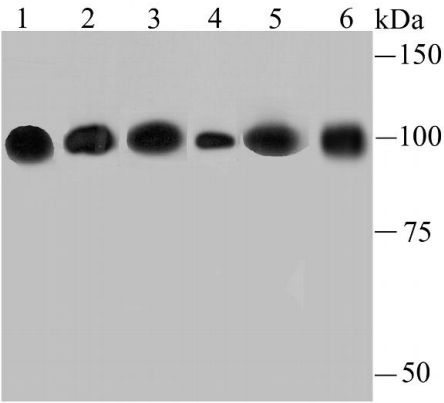
alpha Actinin 4 Antibody (MA5-32794)

Antibody specificity was demonstrated by detection of differential basal expression of the target across Cell line tested owing to their inherent genetic constitution. Relative expression of Alpha-actinin-4 was observed in DU 145 in comparison to LNCaP using Anti-alpha Actinin 4 Recombinant Rabbit Monoclonal Antibody (JU20-23) (Product # MA5-32794) in Western Blot. <https://doi.org/10.1016/j.bbrc.2019.12.084> {RE}



alpha Actinin 4 Antibody (MA5-32794) in WB

Western blot analysis of alpha Actinin 4 in different lysates using a Monoclonal antibody (Product #MA5-32794) at a dilution of 1:500. Positive control: Lane 1: HeLa, Lane 2: PC-12, Lane 3: NIH-3T3, Lane 4: Rat liver tissue, Lane 5: A431, Lane 6: HepG2.



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Immunocytochemistry (1)

Journal of translational medicine	Year 2023
Induction of filopodia formation by -Actinin-2 via RelA with a feedforward activation loop promoting overt bone marrow metastasis of gastric cancer.	Species Human
"MA5-32794 was used in Immunocytochemistry-immunofluorescence to propose ACTN2 as a druggable molecular vulnerability that may provide potential therapeutic benefit against BMM of GC."	Dilution 1:250
Authors: Wang C,Xie B,Yin S,Cao J,Huang J,Jin L,Du G,Zhai X,Zhang R,Li S,Cao T,Yu H,Fan X,Yang Z,Peng J,Xiao J,Lian L	

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