

Product Datasheet

alpha-Actinin 1 Antibody (OTI7A4) NBP1-48251

Unit Size: 0.1 ml

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

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NBP1-48251

alpha-Actinin 1 Antibody (OTI7A4)

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI7A4
Preservative	0.02% Sodium Azide
Isotype	IgG2a
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	102.9 kDa

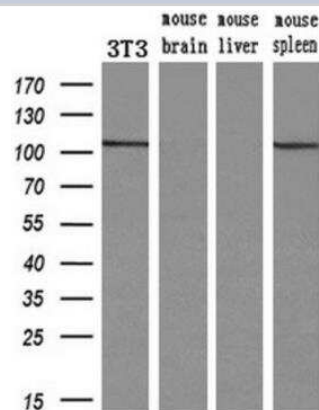
Product Description	
Host	Mouse
Gene ID	87
Gene Symbol	ACTN1
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 27512039). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be 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.
Marker	Z-disk Marker
Specificity/Sensitivity	This antibody is specific for Homo sapiens actinin, alpha 1 (ACTN1), transcript variant 2.
Immunogen	Human recombinant protein fragment corresponding to amino acids 650-893 of human alpha-actinin (NP_001093) produced in E.coli.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1:2000, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:50, Knockout Validated

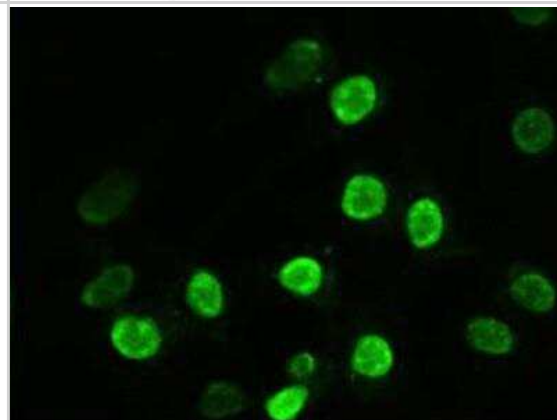


Images

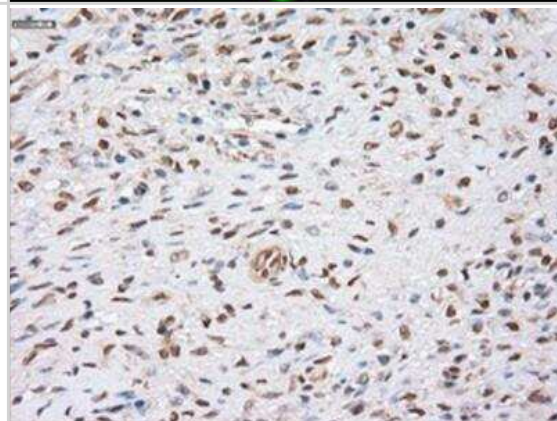
Western Blot: alpha-Actinin 1 Antibody (OTI7A4) [NBP1-48251] - Analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-ACTN1 monoclonal antibody (1:200).



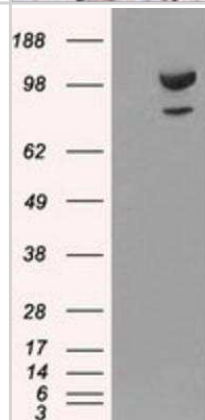
Immunocytochemistry/Immunofluorescence: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of Hela cells transiently transfected by pCMV6-ENTRY Alpha Actinin 1.



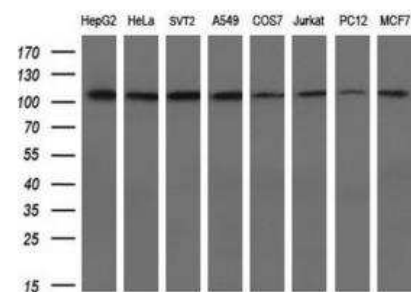
Immunohistochemistry-Paraffin: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of paraffin-embedded Human Ovary tissue using anti-Alpha Actinin 1 mouse monoclonal antibody.



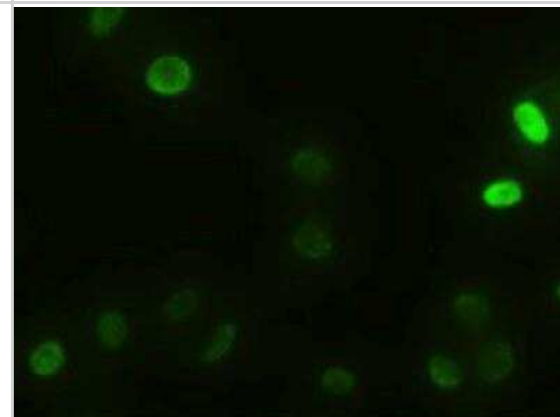
Western Blot: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY Alpha Actinin 1 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-Alpha Actinin 1.



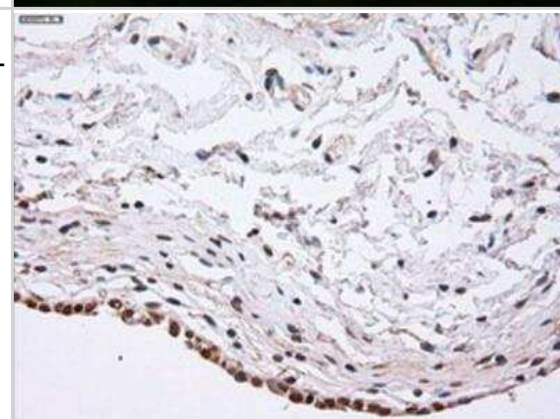
Western Blot: alpha-Actinin 1 Antibody (OTI7A4) [NBP1-48251] - Analysis of extracts (10ug) from 8 different cell lines by using anti-ACTN1 monoclonal antibody at 1:200 dilution.



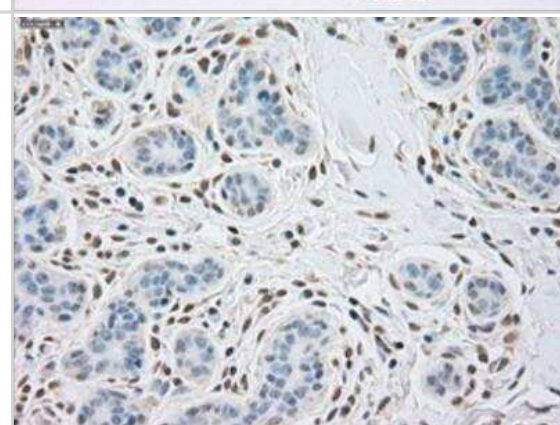
Immunocytochemistry/Immunofluorescence: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of HeLa cells using anti-Alpha Actinin 1 mouse monoclonal antibody.



Immunohistochemistry-Paraffin: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of paraffin-embedded Human bladder tissue using anti-Alpha Actinin 1 mouse monoclonal antibody.



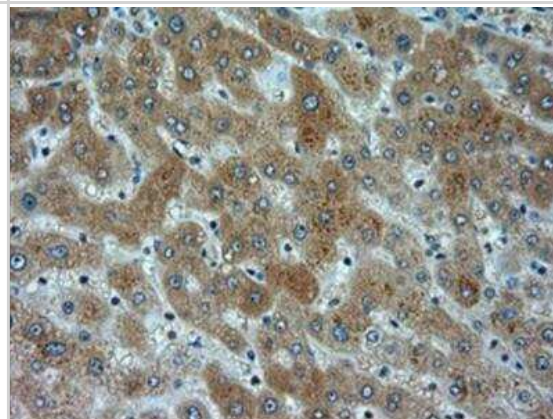
Immunohistochemistry-Paraffin: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of paraffin-embedded Human breast tissue using anti-Alpha Actinin 1 mouse monoclonal antibody.



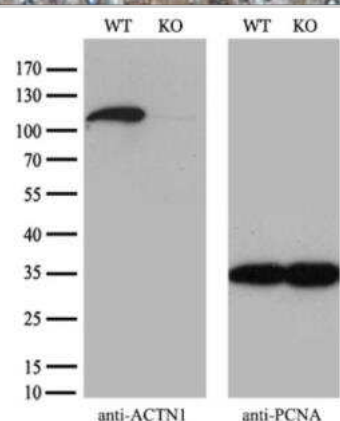
Immunohistochemistry-Paraffin: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of paraffin-embedded Human Kidney tissue using anti-Alpha Actinin 1 mouse monoclonal antibody.



Immunohistochemistry-Paraffin: alpha-Actinin 1 Antibody (7A4) [NBP1-48251] - Staining of paraffin-embedded Human liver tissue using anti-Alpha Actinin 1 mouse monoclonal antibody.



Knockout Validated: alpha-Actinin 1 Antibody (OTI7A4) [NBP1-48251] - Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, and ACTN1-Knockout HeLa cells (KO) were separated by SDS-PAGE and immunoblotted with anti-ACTN1 monoclonal antibody (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



Publications

Huang B, Lin C, Wang C, Kao S. Upregulation of heat shock protein 70 and the differential protein expression induced by tumor necrosis factor-alpha enhances migration and inhibits apoptosis of hepatocellular carcinoma cell HepG2. International Journal of Medical sciences. 2017-02-25 [PMID: 28367089] (IF/IHC, Human)

Shen X, Soibam B, Benham A et al. miR-322/-503 cluster is expressed in the earliest cardiac progenitor cells and drives cardiomyocyte specification. Proc. Natl. Acad. Sci. U.S.A. 2016-08-23 [PMID: 27512039] (IF/IHC, Mouse)



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Products Related to NBP1-48251

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NBP2-59725-0.1mg	Recombinant Human alpha-Actinin 1 His 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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