

#### OriGene Technologies, Inc.

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# Product datasheet for TA500072

## alpha Actinin (ACTN1) Mouse Monoclonal Antibody [Clone ID: OTI7A4]

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI7A4
Applications:	IF, IHC, WB
<b>Recommend Dilution:</b>	WB 1:2000, IHC 1:50, IF 1:100
Reactivity:	Human
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 650-893 of human alpha-actinin (NP_001093) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	102.9 kDa
Gene Name:	actinin alpha 1
Database Link:	<u>NP_001093 Entrez Gene 87 Human</u>
Background:	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments.
Synonyms:	BDPLT15
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS



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Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Systemic lupus erythematosus, Tight junction

### **Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ACTN1 ([RC204924], 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-ACTN1. Positive lysates [LY400447] (100ug) and [LC400447] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 8 different cell lines by using anti-ACTN1 monoclonal antibody at 1:200 dilution.

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anti-PCNA TA500072 TA800875



Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-ACTN1 monoclonal antibody (1:200).

Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and ACTN1-Knockout HeLa cells (KO, Cat# [LC832215]) were separated by SDS-PAGE and immunoblotted with anti-ACTN1 monoclonal antibody TA500072 (1:500`). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.

Immunohistochemical staining of paraffinembedded Human breast tissue within the normal limits using anti-ACTN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500072)

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Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-ACTN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500072)

Immunohistochemical staining of paraffinembedded Human liver tissue within the normal limits using anti-ACTN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500072)

Immunohistochemical staining of paraffinembedded Human Ovary tissue within the normal limits using anti-ACTN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500072)

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Immunohistochemical staining of paraffinembedded Human bladder tissue within the normal limits using anti-ACTN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500072)





Anti-ACTN1 mouse monoclonal antibody (TA500072) immunofluorescent staining of Hela cells transiently transfected by pCMV6-ENTRY ACTN1 ([RC204924]).

Immunofluorescent staining of HeLa cells using anti-ACTN1 mouse monoclonal antibody (TA500072).

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