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## Datasheet for ABIN392219 anti-alpha Actinin 4 antibody (C-Term)

3 Images

1 Publication



#### Overview

Quantity:	400 µL
Target:	alpha Actinin 4 (ACTN4)
Binding Specificity:	AA 785-813, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	This ACTN4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 785-813 amino acids from the C-terminal region of human ACTN4.
Clone:	RB15705
lsotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	ACTN4 (ACTN4 Products)

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## Target Details

Background:	Alpha actinins belong to the spectrin 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. This protein is a nonmuscle, alpha actinin isoform which
	is concentrated in the cytoplasm, and is thought to be involved in metastatic processes.
	Mutations in the gene encoding this protein have been associated with focal and segmental
	glomerulosclerosis.

Molecular Weight:	104854
Gene ID:	81
NCBI Accession:	NP_004915
UniProt:	043707
Pathways:	Proton Transport

### **Application Details**

Application Notes:	WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

## Handling

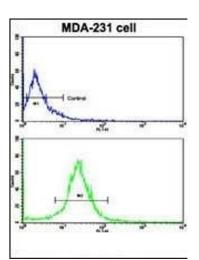
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

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Lin, Liu, Sun, Yuan, Zhang, Chen: "Establishment and characterization of a tamoxifen-mediated reversible immortalized mouse dental papilla cell line." in: **In vitro cellular & developmental biology. Animal**, Vol. 49, Issue 2, pp. 114-21, (2013) (PubMed).

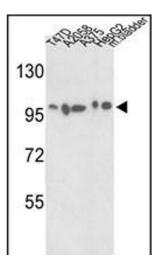
Kaushik, Arias, Kwon, Lopez, Athonvarangkul, Sahu, Schwartz, Pessin, Singh: "Loss of autophagy in hypothalamic POMC neurons impairs lipolysis." in: **EMBO reports**, Vol. 13, Issue 3, pp. 258-65, (2012) (PubMed).

Images



#### **Flow Cytometry**

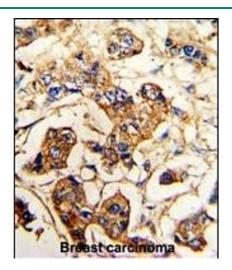
**Image 1.** Flow cytometric analysis of MDA-231 cells using ACTN4 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



#### **Western Blotting**

**Image 2.** Western blot analysis of ACTN4 Antibody (C-term) (ABIN392219 and ABIN2841915) in T47D, , , HepG2 cell line and mouse bladder tissue lysates (35 µg/lane). ACTN4 (arrow) was detected using the purified Pab.

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#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin-embedded human breast carcinoma reacted with ACTN4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

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