

For Research Use Only

ACTN4 Monoclonal antibody

Catalog Number: 66628-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number: 66628-1-Ig	GenBank Accession Number: BC005033	Purification Method: Protein G purification
Size: 150ul, Concentration: 2300 ug/ml by 81 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 81	CloneNo.: 1E12B8
Source: Mouse	UNIPROT ID: O43707	Recommended Dilutions: WB 1:5000-1:20000 IHC 1:2500-1:10000
Isotype: IgG1	Full Name: actinin, alpha 4	
Immunogen Catalog Number: AG13549	Calculated MW: 105 kDa	
	Observed MW: 105 and 80 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IP, IF

Species Specificity:
Human, Mouse, Rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with **TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: HeLa cells, LNCaP cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, K-562 cells, pig brain tissue, mouse brain tissue, rat brain tissue, chicken brain tissue

IHC: human breast cancer tissue, human lung cancer tissue

Background Information

ACTN4 (alpha actinin 4) is a ubiquitous actin-binding protein that cross-links actin filaments into bundles to form filopodia, and has a crucial role in cytoskeletal organization. ACTN4 is colocalized with actin stress fibers and is dispersed in the cytoplasm and in the nucleus. Increased levels of ACTN4 have been associated with cancer metastasis, indicating its implication in cancer cell migration and metastasis. Defects in ACTN4 cause glomerular disease. This antibody recognizes 105 and 80 kDa of endogenous ACTN4 protein in various lysates. (22370640, 10700177)

Notable Publications

Author	Pubmed ID	Journal	Application
Bing Yu	34758440	Int Immunopharmacol	IF
Xiaoying Liu	34061428	Environ Toxicol	WB
Jianlin Zhao	31399951	J Physiol Biochem	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

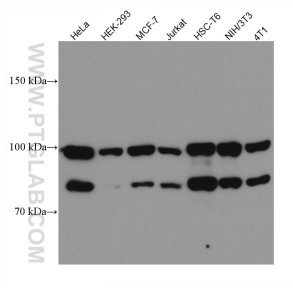
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

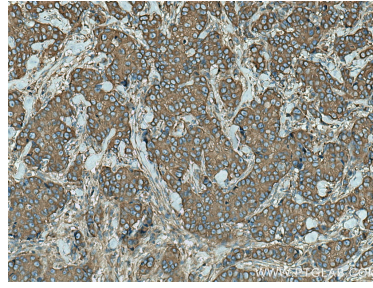
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66628-1-Ig (ACTN4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66628-1-Ig (ACTN4 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).