

For Research Use Only

14-3-3 Monoclonal antibody

Catalog Number: 66061-1-Ig **4 Publications**



Basic Information

Catalog Number: 66061-1-Ig	GenBank Accession Number: BC056867	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop and 487 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10971	CloneNo.: 2E10A3
Source: Mouse	UNIPROT ID: P27348	Recommended Dilutions: WB 1:2000-1:20000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:20-1:200
Isotype: IgG1	Full Name: tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	
Immunogen Catalog Number: AG6055	Calculated MW: 28 kDa	
	Observed MW: 31 kDa, 28 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HEK-293 cells, HeLa cells, HepG2 cells, human brain tissue, pig brain tissue, rat brain tissue, mouse brain tissue IP : rat brain tissue, IHC : human lung cancer tissue, rat brain tissue IF/ICC : HepG2 cells,
Cited Applications: WB, IP, IF, IHC, CoIP	
Species Specificity: human, rat, mouse, pig	
Cited Species: human, rat, mouse	

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

Background Information

14-3-3 proteins interact with a wide spectrum of proteins and possess diverse functions. Mammals express seven distinct 14-3-3 isoforms (gamma, epsilon, beta, zeta, sigma, theta, tau) that form multiple homo- and heterodimers. 14-3-3 proteins display the highest expression levels in the brain, and have been implicated in several neurodegenerative diseases, including Alzheimer's disease and amyotrophic lateral sclerosis.

Notable Publications

Author	Pubmed ID	Journal	Application
Nerea Ugidos	31620119	Front Immunol	IF
Hui Zhou	33203800	Aging (Albany NY)	IHC
Yuetao Wen	35609730	Neurosci Res	WB, CoIP

Storage

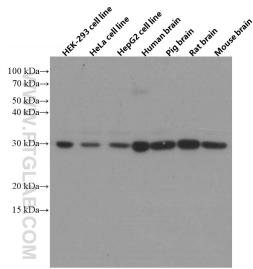
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

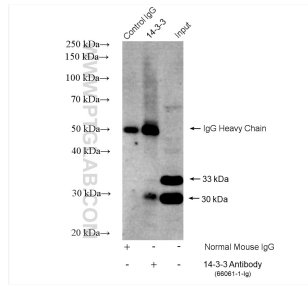
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

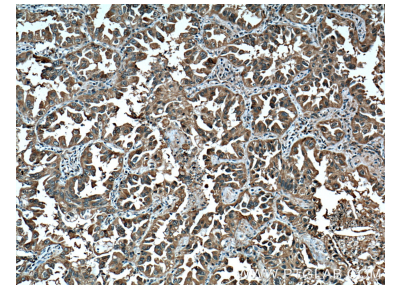
Selected Validation Data



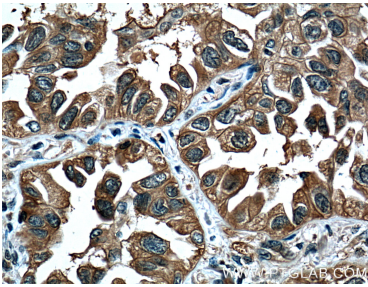
Various lysates were subjected to SDS PAGE followed by western blot with 66061-1-Ig (14-3-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



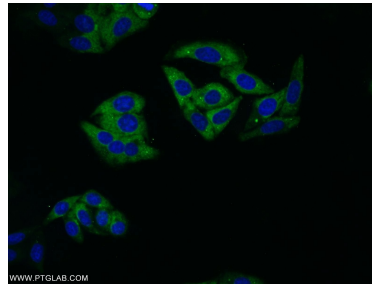
IP result of anti-14-3-3 (IP:66061-1-Ig, 4ug; Detection:66061-1-Ig 1:20000) with rat brain tissue lysate 1080 ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66061-1-Ig (14-3-3 Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66061-1-Ig (14-3-3 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 66061-1-Ig (14-3-3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Mouse IgG (H+L).