

For Research Use Only

# 14-3-3 Monoclonal antibody

Catalog Number: 66061-1-Ig 4 Publications



## Basic Information

<b>Catalog Number:</b> 66061-1-Ig	<b>GenBank Accession Number:</b> BC056867	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 900 µg/ml by Nanodrop and 713 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10971	<b>CloneNo.:</b> 2E10A3
<b>Source:</b> Mouse	<b>Full Name:</b> tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	<b>Recommended Dilutions:</b> 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 1:20-1:200
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 28 kDa	
<b>Immunogen Catalog Number:</b> AG6055	<b>Observed MW:</b> 31 kDa, 28 kDa	

## Applications

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

**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 hetero-dimers. 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

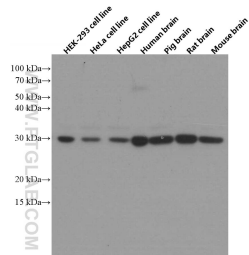
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

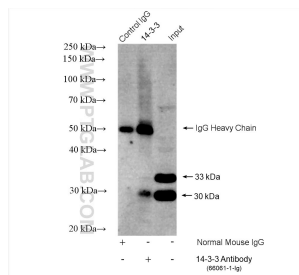
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

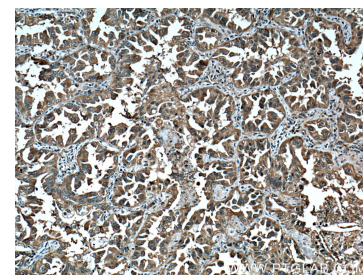
## Selected Validation Data



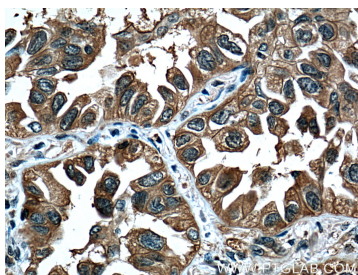
Various lysates were subjected to SDS PAGE followed by western blot with 66061-1-Ig (14-3-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



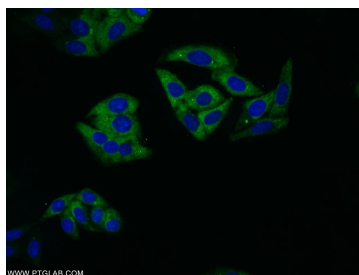
IP result of anti-14-3-3 (IP:66061-1-Ig, 4ug; Detection:66061-1-Ig 1:20000) with rat brain tissue lysate 1080 ug.



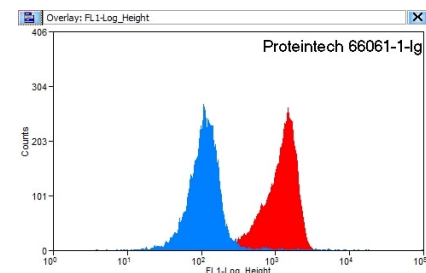
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66061-1-Ig (14-3-3 Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure Goat Anti-Mouse IgG (H+L).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug 14-3-3 antibody (66061-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500.