

For Research Use Only

# 14-3-3 Monoclonal antibody

Catalog Number: 66061-1-Ig **5 Publications**



## Basic Information

<b>Catalog Number:</b> 66061-1-Ig	<b>GenBank Accession Number:</b> BC056867	<b>Purification Method:</b> Protein G purification
<b>Concentration:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 10971	<b>CloneNo.:</b> 2E10A3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P27348	<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/ICC: 1:20-1:200
<b>Isotype:</b> IgG1	<b>Full Name:</b> tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	
<b>Immunogen Catalog Number:</b> AG6055	<b>Calculated MW:</b> 28 kDa	
	<b>Observed MW:</b> 31 kDa, 28 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF, IP, CoIP	<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, mouse, rat, pig	<b>IP :</b> rat brain tissue,
<b>Cited Species:</b> human, mouse, rat, pig	<b>IHC :</b> human lung cancer tissue, rat brain tissue
	<b>IF/ICC :</b> HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

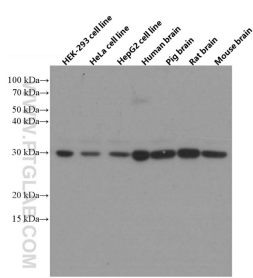
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

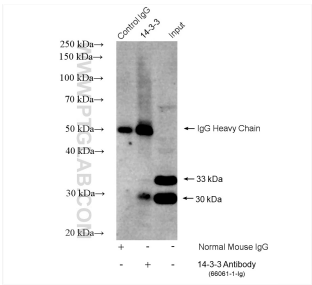
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

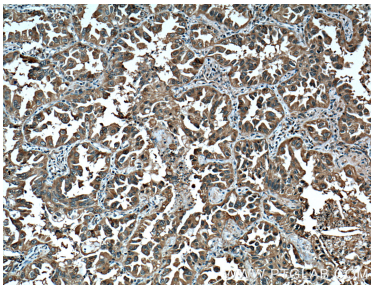
Selected Validation Data



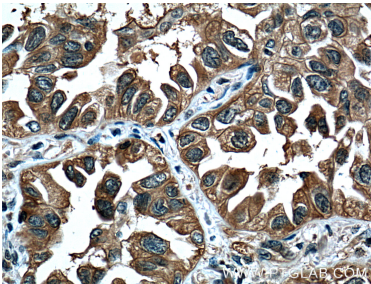
Various lysates were subjected to SDS PAGE followed by western blot with 66061-1-Ig (14-3-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



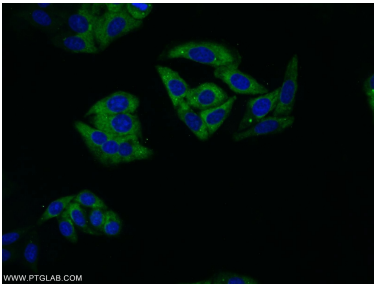
IP result of anti-14-3-3 (IP:66061-1-Ig, 4ug; Detection:66061-1-Ig 1:20000) with rat brain tissue lysate 1080 ug.



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).