

For Research Use Only

# 14-3-3 Polyclonal antibody

Catalog Number: 14503-1-AP

Featured Product

18 Publications



## Basic Information

**Catalog Number:**

14503-1-AP

**Size:**

350 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5959

**GenBank Accession Number:**

BC056867

**GeneID (NCBI):**

10971

**UNIPROT ID:**

P27348

**Full Name:**

tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide

**Calculated MW:**

28 kDa

**Observed MW:**

31 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IF/ICC, FC (Intra), IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP, RIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

**WB:** HeLa cells, mouse liver tissue, mouse brain tissue, Jurkat cells, rat liver tissue, mouse heart tissue, NIH/3T3 cells, C6 cells

**IP:** mouse lung tissue,

**IF/ICC:** HepG2 cells,

## Background Information

14-3-3 proteins are the first phosphoserine/phosphothreonine-binding proteins to be discovered. 14-3-3 family members 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- dimmers. 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
Xiaopei Hao	36131287	J Exp Clin Cancer Res	WB, CoIP, RIP
Radia Forteza	31664880	Mol Biol Cell	IP
Hikari Tanaka	34635772	Commun Biol	WB

## 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

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

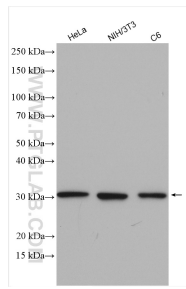
T: 4006900926

E: Proteintech-CN@ptglab.com

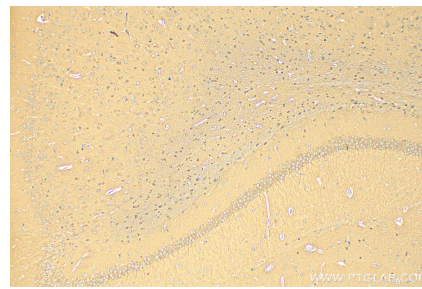
W: ptgcn.com

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

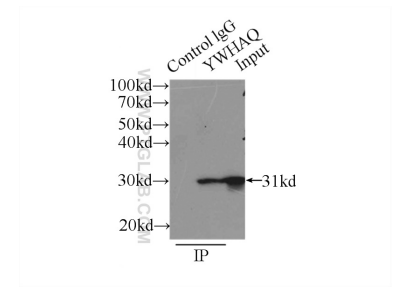
## Selected Validation Data



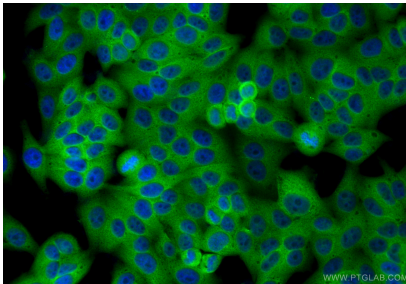
Various lysates were subjected to SDS PAGE followed by western blot with 14503-1-AP (14-3-3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



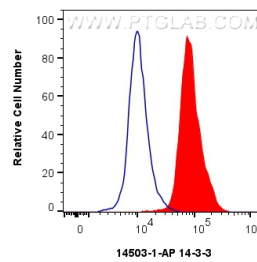
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14503-1-AP (14-3-3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-14-3-3 (IP:14503-1-AP, 5ug; Detection:14503-1-AP 1:500) with mouse lung tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 14-3-3 antibody (14503-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug 14-3-3 Polyclonal antibody (14503-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).