

# 14-3-3 Polyclonal antibody

Catalog Number: 14503-1-AP

Featured Product

14 Publications

## Basic Information

## Catalog Number:

14503-1-AP

## Size:

307 µg/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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:20-1:200

## Applications

## Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

## Cited Applications:

WB, IP, RIP, IHC, ColP

## Species Specificity:

human, mouse, rat

## 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**

## 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,

IHC: mouse brain tissue, human testis tissue

IF: 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- 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
Xiaopei Hao	36131287	J Exp Clin Cancer Res	WB, ColP, 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

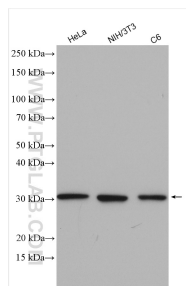
For technical support and original validation data for this product please contact:

T: 4006900926

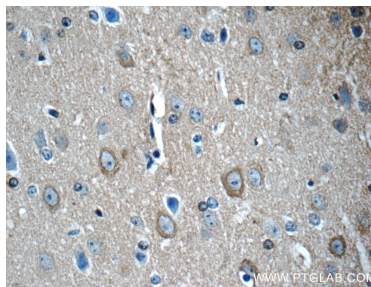
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

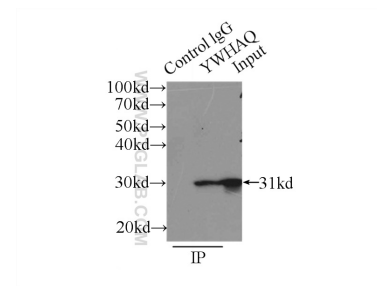
## Selected Validation Data



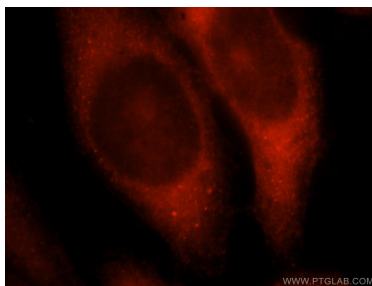
Various lysates were subjected to SDS PAGE followed by western blot with 14503-1-AP (14-3-3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



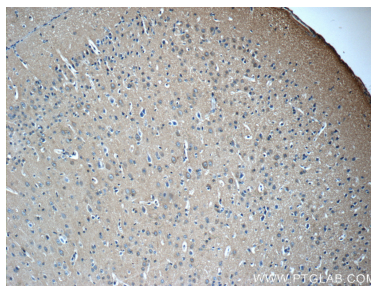
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14503-1-AP (14-3-3 Antibody) at dilution of 1:50 (under 40x lens).



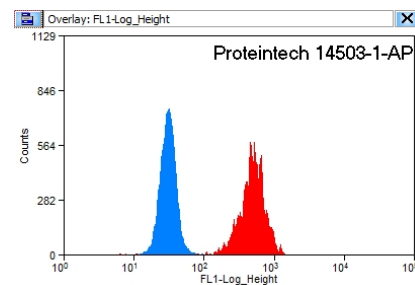
IP result of anti-14-3-3 (IP:14503-1-AP, 5ug; Detection:14503-1-AP 1:500) with mouse lung tissue lysate 4000ug.



Immunofluorescent analysis of HepG2 cells, using YWHAQ antibody 14503-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14503-1-AP (14-3-3 Antibody) at dilution of 1:50 (under 10x lens).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug 14-3-3 antibody (14503-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.