

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

Concentration:

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

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

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,

FC (Intra): HeLa 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, 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

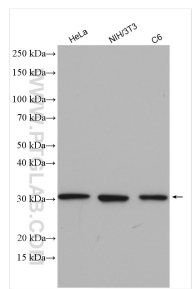
T: 4006900926

E: Proteintech-CN@ptglab.com

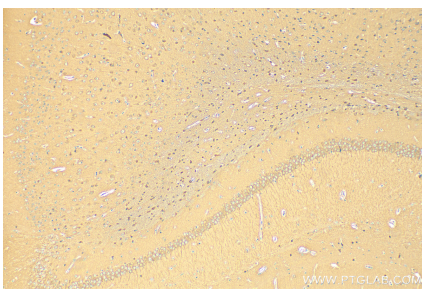
W: ptgcn.com

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

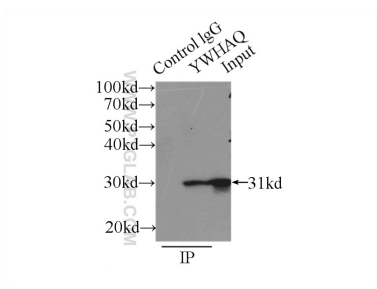
Selected Validation Data



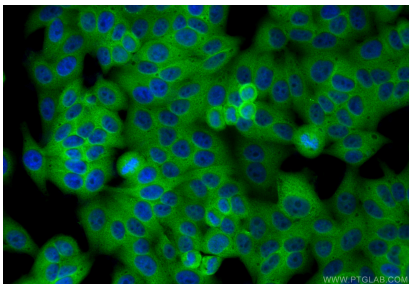
Various lysates were subjected to SDS PAGE followed by western blot with 14503-1-AP (14-3-3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



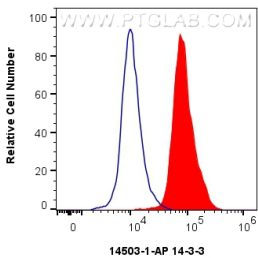
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14503-1-AP (14-3-3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10⁶ 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).