For Research Use Only

14-3-3 Polyclonal antibody

Catalog Number:14503-1-AP Featured Product 14 Publications

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Basic Information

Catalog Number:
14503-1-AP

Size:
150ul , Concentration: 307 μg/ml by Nanodrop;

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
IHC 1:50-1:500
IF 1:20-1:200

Applications

Tested Applications:
WB, IP, IF, FC, IHC, ELISA

Cited Applications:
WB, IP, RIP, IHC, CoIP

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- 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

*** 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)
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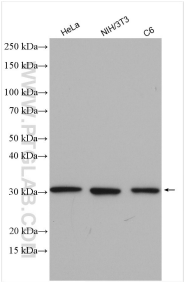
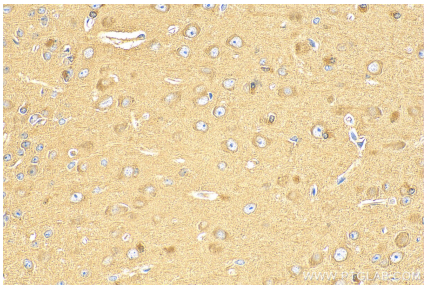
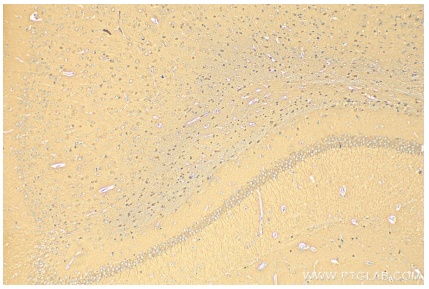
Selected Validation Data



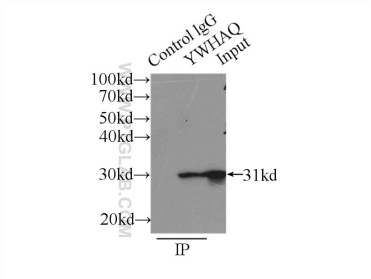
Various lysates were subjected to SDS PAGE followed by western blot with 14503-1-AP (14-3-3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



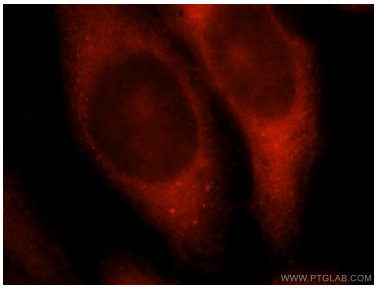
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14503-1-AP (14-3-3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



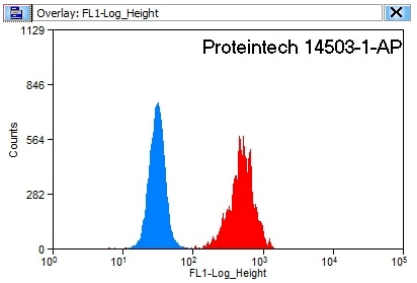
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14503-1-AP (14-3-3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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



1X10^6 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.