For Research Use Only

14-3-3 Epsilon Polyclonal antibody

Catalog Number:11648-2-AP Featured Product 17 Publications

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Basic Information

Catalog Number:
11648-2-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2247

GenBank Accession Number:
BC000179

GeneID (NCBI):
7531

UNIPROT ID:
P62258

Full Name:
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide

Calculated MW:
255 aa, 29 kDa

Observed MW:
29-32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:5000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:10-1:100

Applications

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

Cited Applications:
IF, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, 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 : A375 cells, HeLa cells

IP : A375 cells,

IHC : human lung cancer tissue, human gliomas tissue, mouse brain tissue

IF : HepG2 cells,

Background Information

14-3-3 Epsilon (also known as YWHAE) is a member of 14-3-3 proteins which were 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. This antibody was raised against full-length 14-3-3 Epsilon.

Notable Publications

Author	Pubmed ID	Journal	Application
Nerea Ugidos	31620119	Front Immunol	WB,IF
Kun Lu	29285195	Oncol Lett	WB,IF
Chihiro Tohda	34054554	Front Pharmacol	IP, 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:
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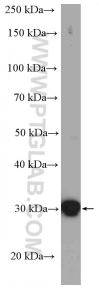
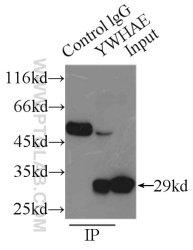
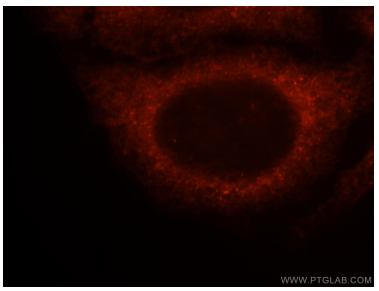
Selected Validation Data



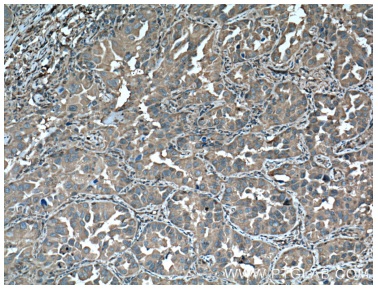
A375 cells were subjected to SDS PAGE followed by western blot with 11648-2-AP (14-3-3 epsilon antibody at dilution of 1:3000 incubated at room temperature for 1.5 hours.



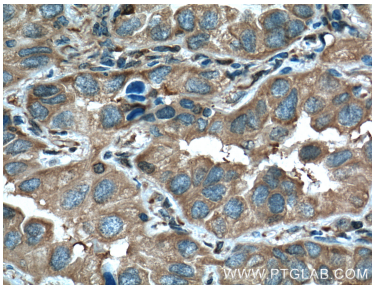
IP result of anti-14-3-3 Epsilon (IP:11648-2-AP, 3ug; Detection:11648-2-AP 1:1000) with A375 cells lysate 6000ug.



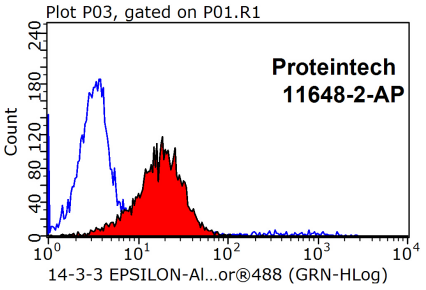
Immunofluorescent analysis of HepG2 cells, using YWHAE antibody 11648-2-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11648-2-AP (14-3-3 epsilon antibody at dilution of 1:200 (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 11648-2-AP (14-3-3 epsilon antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were stained with 0.2ug 14-3-3 epsilon antibody (11648-2-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 1:1000.