

For Research Use Only

# 14-3-3 Epsilon Polyclonal antibody

Catalog Number: 11648-2-AP

Featured Product

19 Publications



## Basic Information

**Catalog Number:**

11648-2-AP

**Size:**

300 ug/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 1:300-1:1200

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IF, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, canine

**Positive Controls:**

WB : A375 cells, HeLa cells

IP : A375 cells,

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

IF/ICC : HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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:

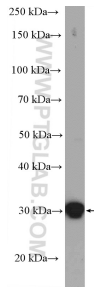
T: 4006900926

E: Proteintech-CN@ptglab.com

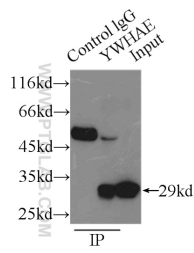
W: ptgcn.com

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

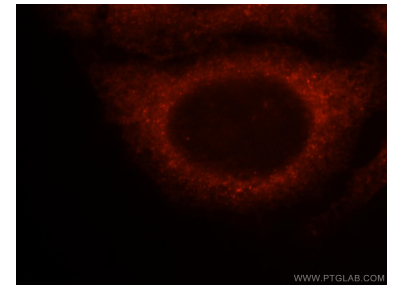
## Selected Validation Data



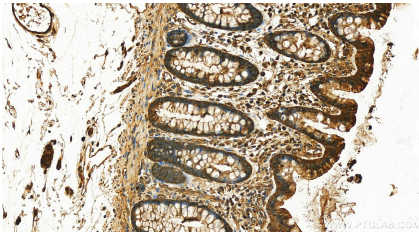
A375 cells were subjected to SDS PAGE followed by western blot with 11648-2-AP (14-3-3 epsilon antibody at dilution of 1:3000 incubated at room temperature for 1.5 hours.



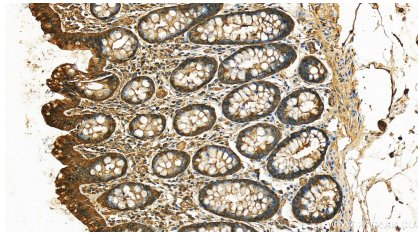
IP result of anti-14-3-3 Epsilon (IP:11648-2-AP, 3ug; Detection:11648-2-AP 1:1000) with A375 cells lysate 6000ug.



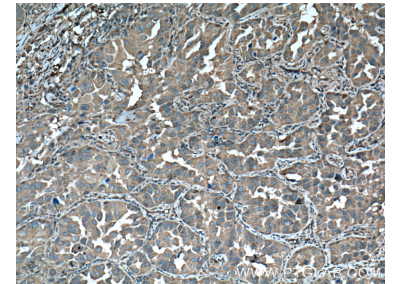
Immunofluorescent analysis of HepG2 cells, using YWHAE antibody 11648-2-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



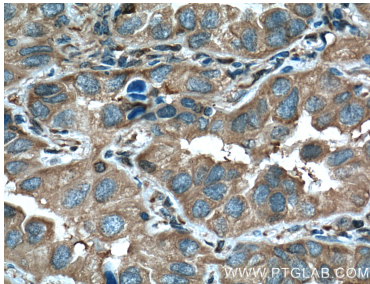
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 11648-2-AP (14-3-3 Epsilon antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 11648-2-AP (14-3-3 Epsilon antibody) at dilution of 1:600 (under 20x 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 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).