

For Research Use Only

DNAJB12 Polyclonal antibody

Catalog Number: 16780-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

16780-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10193

GenBank Accession Number:

BC011812

GeneID (NCBI):

54788

UNIPROT ID:

Q9NXW2

Full Name:

DnaJ (Hsp40) homolog, subfamily B, member 12

Calculated MW:

375 aa, 42 kDa

Observed MW:

40-42 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IF, IP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, monkey

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: mouse brain tissue, A549 cells, human brain tissue, human kidney tissue, human liver tissue, MCF-7 cells, MKN-45 cells, rat brain tissue

IP: mouse brain tissue,

IHC: human stomach tissue, human ovary cancer tissue

Background Information

DNAJB12 (JB12), a ER transmembrane chaperone, specifically interacts with Hsc70 to facilitate ER retention and delivery of membrane proteins for folding or degradation in the ERAD pathway. Hsc70 chaperone activities require the substrate targeting function of DNAJB12. DNAJB12 recruits specific substrates to contact Hsc70 and then stimulates its ATPase activity. (PMID: 34668642)

Notable Publications

Author	Pubmed ID	Journal	Application
Allison Dupzyk	29769335	J Virol	WB
Xiaofang Liu	32161173	J Virol	WB, IP
Christopher Paul Walczak	24675744	PLoS Pathog	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

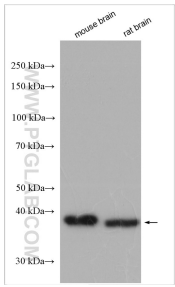
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

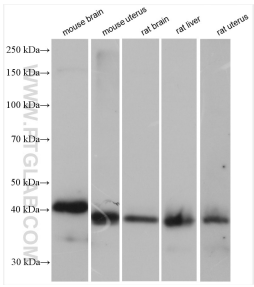
E: proteintech@ptglab.com
W: ptglab.com

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

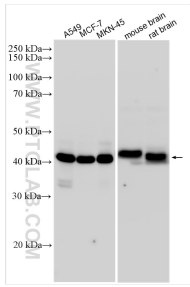
Selected Validation Data



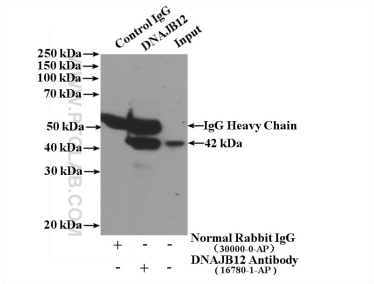
Various lysates were subjected to SDS PAGE followed by western blot with 16780-1-AP (DNAJB12 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



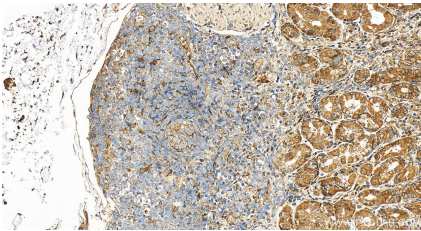
Various lysates were subjected to SDS PAGE followed by western blot with 16780-1-AP (DNAJB12 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



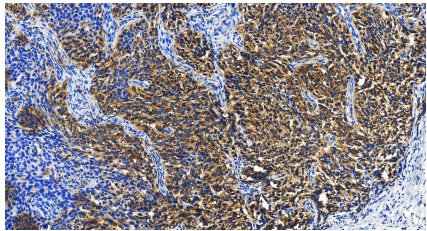
Various lysates were subjected to SDS PAGE followed by western blot with 16780-1-AP (DNAJB12 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



IP result of anti-DNAJB12 (IP:16780-1-AP, 4ug; Detection:16780-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 16780-1-AP (DNAJB12 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 16780-1-AP (DNAJB12 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).