For Research Use Only

PQBP1 Polyclonal antibody

Catalog Number:16264-1-AP 6 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16264-1-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9329

GenBank Accession Number:
BC012358

GeneID (NCBI):
10084

UNIPROT ID:
O60828

Full Name:
polyglutamine binding protein 1

Calculated MW:
265 aa, 30 kDa

Observed MW:
30-32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:5000-1:50000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:500-1:2000
IF/ICC: 1:200-1:800

Applications

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

Cited Applications:
WB, IHC, IF, IP

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 : HEK-293T cells, HeLa cells, mouse brain tissue, mouse skeletal muscle tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human breast cancer tissue, human colon tissue, mouse colon tissue, rat colon tissue

IF/ICC : HeLa cells, NIH/3T3 cells, A431 cells

Background Information

PQBP1 (Polyglutamine-binding protein 1) is also named as NPW38 and JM26. PQBP1 senses extrinsic tau 3R/4R proteins by direct interaction and triggers an innate immune response by activating a cyclic GMP-AMP synthase (cGAS)-Stimulator of interferon genes (STING) pathway (PMID: 34782623). PQBP1 is abundantly expressed in the central nervous system during development. PQBP1 is a component of the precatalytic spliceosome (B complex) that is involved in splicing. PQBP1 was predominantly localized in the cell nucleus. PQBP1 is overexpressed in various cancer types including breast cancer, colon cancer, and glioblastoma (PMID: 38342602).

Notable Publications

Author	Pubmed ID	Journal	Application
Hongming Ma	32156810	mBio	WB
Yuqian Shen	33662272	Mol Cell	WB,IP,IF
Qiaoyun Bai	42327952	Research (Wash D C)	WB,IP,IF

Storage

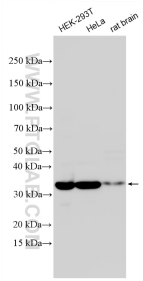
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

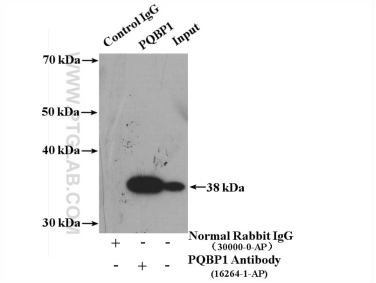
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

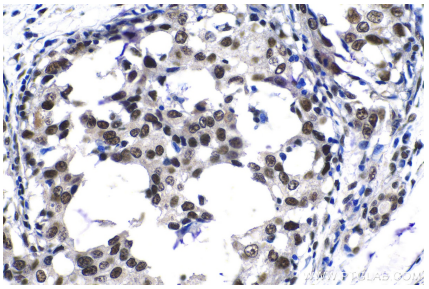
Selected Validation Data



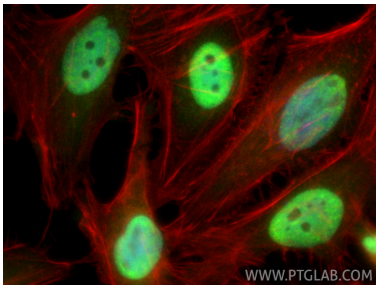
Various lysates were subjected to SDS PAGE followed by western blot with 16264-1-AP (PQBP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



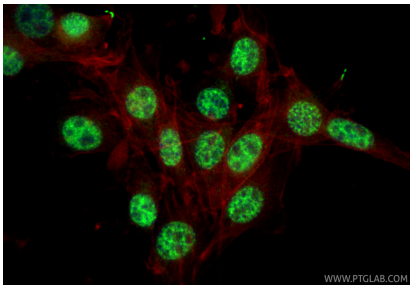
IP result of anti-PQBP1 (IP:16264-1-AP, 4ug; Detection:16264-1-AP 1:500) with mouse brain tissue lysate 3200 ug.



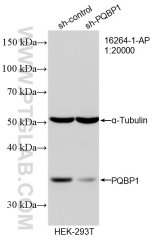
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16264-1-AP (PQBP1 antibody) at dilution of 1:1000 (under 40x lens).



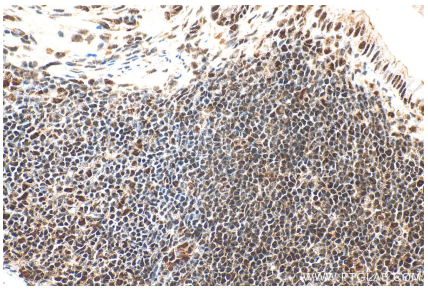
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PQBP1 antibody (16264-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using PQBP1 antibody (16264-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



WB result of PQBP1 antibody (16264-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PQBP1 transfected HEK-293T cells.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 16264-1-AP (PQBP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).