

For Research Use Only

PABPN1 Monoclonal antibody

Catalog Number: 66807-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number: 66807-1-Ig	GenBank Accession Number: BC010939	Purification Method: Protein G purification
Size: 150ul, Concentration: 1857 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8106	CloneNo.: 3C12E12
Source: Mouse	UNIPROT ID: Q86U42	Recommended Dilutions: WB 1:1000-1:6000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000 IF 1:1000-1:4000
Isotype: IgG1	Full Name: poly(A) binding protein, nuclear 1	
Immunogen Catalog Number: AG27470	Calculated MW: 33 kDa	
	Observed MW: 50-56 kDa	

Applications

Tested Applications:

WB, IP, IF, IHC, ELISA

Cited Applications:

WB, RIP, IHC

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: HeLa cells, HepG2 cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, K-562 cells, PC-12 cells

IP: Jurkat cells,

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

IF: MCF-7 cells,

Background Information

Poly(A) Binding Protein Nuclear 1 (PABPN1) is one of the isoforms of poly(A) binding protein (PABP) that locating to the nucleus in eukaryotic cells. And PABPN1 plays important role in mRNA stability by regulating of poly-A tail length, mRNA decay and proximal polyadenylation site (PAS) utilization at the 3'-UTR (PMID:23300856). Another report showed that PABPN1 shuttles between the nucleus and the cytoplasm to export poly(A) RNA from the nucleus (PMID:23601051). It is reported that PABPN1 is ubiquitously expressed in almost all tissues, however, mutations in PABPN1 causes Oculopharyngeal Muscular Dystrophy (OPMD) which affected in skeletal muscles specifically. Because of a mild reduction in PABPN1 levels is sufficient to induce muscle wasting (PMID:27152426). Acetylation, Methylation, Phosphoprotein are common post-translational modifications of PABPN1 protein. And 50-55 kDa bands have been reported (PMID: 29939290; 28361972).

Notable Publications

Author	Pubmed ID	Journal	Application
J J David Ho	34644561	Cell Rep	WB
Baiqing Tang	35963436	J Biol Chem	WB
Albertas Navickas	37156909	Nat Cell 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**

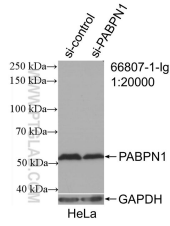
For technical support and original validation data for this product please contact:

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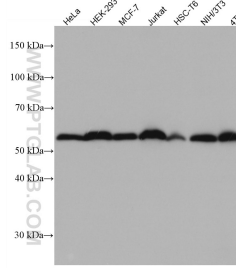
E: proteintech@ptglab.com
W: ptglab.com

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

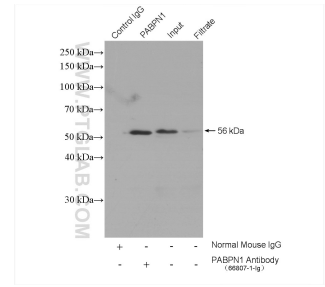
Selected Validation Data



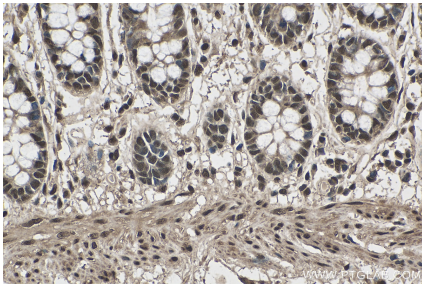
WB result of PABPN1 antibody (66807-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PABPN1 transfected HeLa cells.



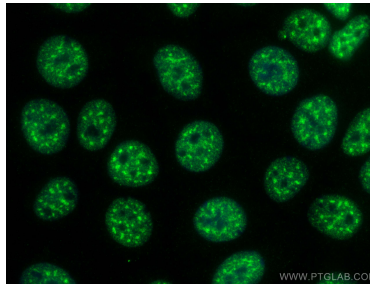
Various lysates were subjected to SDS PAGE followed by western blot with 66807-1-Ig (PABPN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-PABPN1 (IP:66807-1-Ig, 5ug; Detection:66807-1-Ig 1:600) with Jurkat cells lysate 1680 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66807-1-Ig (PABPN1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using PABPN1 antibody (66807-1-Ig, Clone: 3C12E12) at dilution of 1:2000 and CoralLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).