

Goat Anti-PTBP1 / PTB Antibody
Peptide-affinity purified goat antibody
Catalog # AF1877a**Specification**

Goat Anti-PTBP1 / PTB Antibody - Product Information

Application	WB, IHC, E
Primary Accession	P17225.2
Other Accession	NP_787041 , 19205 (mouse) , 29497 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG

Goat Anti-PTBP1 / PTB Antibody - Additional Information**Other Names**

PTBP1 antibody, PTB antibody, polypyrimidine tract binding protein 1 antibody, PTB2 antibody, PTB3 antibody, PTB4 antibody, pPTB antibody, HNRPI antibody, PTB-1 antibody, HNRNPI antibody, RNA binding protein antibody, heterogeneous nuclear ribonucleoprotein polypeptide I antibody, polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I) antibody, HNRNP-I antibody, MGC10830 antibody, MGC8461 antibody, RNA-binding protein antibody, heterogeneous nuclear ribonucleoprotein I antibody

Dilution

WB~~1:1000
IHC~~1:100~500
E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PTBP1 / PTB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PTBP1 / PTB Antibody - Protein Information**Goat Anti-PTBP1 / PTB Antibody - Protocols**

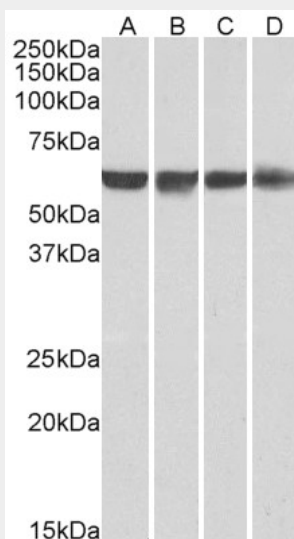
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

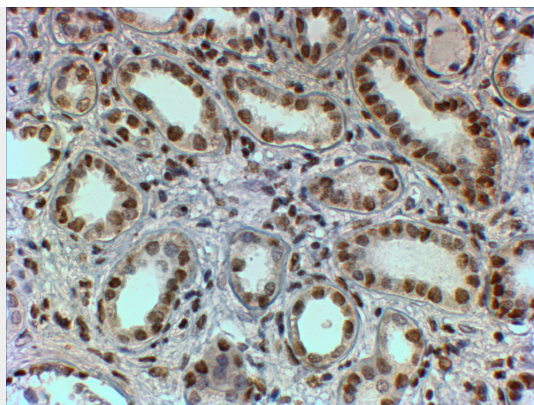
Goat Anti-PTBP1 / PTB Antibody - Images



AF1877a (0.1 µg/ml) staining of Human Ovary lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1877a (0.01 µg/ml) staining of HeLa (A), HepG2 (B), Jurkat (C) and HEK293 (D) nuclear lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1877a (2µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

Goat Anti-PTBP1 / PTB Antibody - Background

This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA-binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has four repeats of quasi-RNA recognition motif (RRM) domains that bind RNAs. This protein binds to the intronic polypyrimidine tracts that requires pre-mRNA splicing and acts via the protein degradation ubiquitin-proteasome pathway. It may also promote the binding of U2 snRNP to pre-mRNAs. This protein is localized in the nucleoplasm and it is also detected in the perinucleolar structure. Alternatively spliced transcript variants encoding different isoforms have been described.

Goat Anti-PTBP1 / PTB Antibody - References

Upregulated c-myc expression in multiple myeloma by internal ribosome entry results from increased interactions with and expression of PTB-1 and YB-1. Cobbold LC, et al. *Oncogene*, 2010 May 13. PMID 20190818.

Interactions between PTB RRM domains induce slow motions and increase RNA binding affinity. Maynard CM, et al. *J Mol Biol*, 2010 Mar 19. PMID 20080103.

Polypyrimidine tract-binding protein interacts with coxsackievirus B3 RNA and influences its translation. Verma B, et al. *J Gen Virol*, 2010 May. PMID 20071487.

Genome-wide analysis of PTB-RNA interactions reveals a strategy used by the general splicing repressor to modulate exon inclusion or skipping. Xue Y, et al. *Mol Cell*, 2009 Dec 25. PMID 20064465.

Polypyrimidine tract binding proteins (PTB) regulate the expression of apoptotic genes and susceptibility to caspase-dependent apoptosis in differentiating cardiomyocytes. Zhang J, et al. *Cell Death Differ*, 2009 Nov. PMID 19590510.