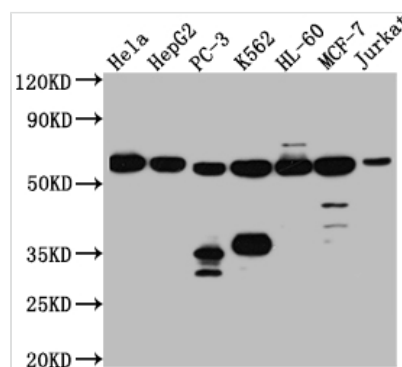




PTBP1 Antibody

Product Code	CSB-RA987652A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P26599
Immunogen	A synthesized peptide derived from human PTBP1
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Plays a role in pre-mRNA splicing and in the regulation of alternative splicing events. Activates exon skipping of its own pre-mRNA during muscle cell differentiation. Binds to the polypyrimidine tract of introns. May promote RNA looping when bound to two separate polypyrimidine tracts in the same pre-mRNA. May promote the binding of U2 snRNP to pre-mRNA. Cooperates with RAVER1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA. Represses the splicing of MAPT/Tau exon 10 (PubMed:15009664). In case of infection by picornaviruses, binds to the viral internal ribosome entry site (IRES) and stimulates the IRES-mediated translation (PubMed:21518806).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	PTBP1
Accession NO.	8A1

Image

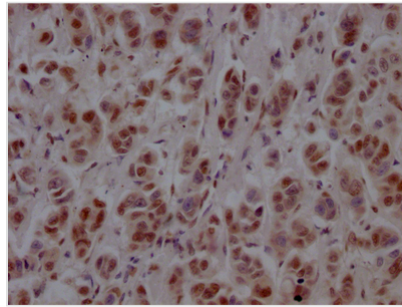


Western Blot

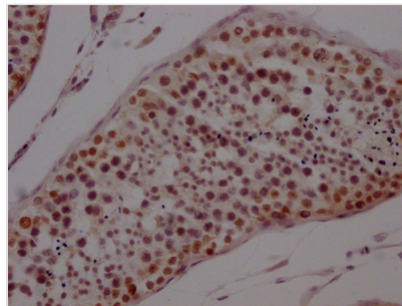
Positive WB detected in: HeLa whole cell lysate, HepG2 whole cell lysate, PC-3 whole cell lysate, K562 whole cell lysate, HL-60 whole cell lysate, MCF-7 whole cell lysate, Jurkat whole cell lysate
All lanes: PTBP1 antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 58, 60, 60 kDa
Observed band size: 58 kDa



IHC image of CSB-RA987652A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA987652A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

PTBP1 is a known regulator of posttranscriptional gene expression that controls messenger RNA (mRNA) splicing, translation, stability, and localization. PTBP1 mediates several cellular processes in certain types of cells, including the growth and differentiation of neuronal cells, activation of T cells, spermatogenesis, embryonic development, and erythrocyte development. It is involved in various diseases, particularly in some cancers, including colorectal cancer, renal cell cancer, breast cancer, and glioma. In cancers, PTBP1 acts mainly as a regulator of glycolysis, apoptosis, proliferation, tumorigenesis, invasion, and migration.

The recombinant PTBP1 antibody is a monoclonal antibody molecule expressed by using recombinant DNA and protein engineering technology to clone the genes encoding the PTBP1 antibody into a plasma vector and then by transfecting the vector clone into the appropriate recipient mammalian cells for production. It was purified using Affinity-chromatography. And it shows reactivity with PTBP1 protein from Human. This recombinant PTBP1 antibody can be used in the ELISA, WB, IHC.