

Human Heterogeneous Nuclear Ribonucleoprotein I (hnRNP I/PTB) ELISA Kit | hnRNP I/PTB elisa kit

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CATALOG # AAA331257	REACTIVITY Human
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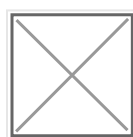
PRODUCT SYNONYMS

Heterogeneous Nuclear Ribonucleoprotein I (hnRNP I/PTB); Human Heterogeneous Nuclear Ribonucleoprotein I (hnRNP I/PTB) ELISA Kit; PTBP1; HNRNP-I; HNRNP1; HNRPI; MGC10830; MGC8461; PTB; PTB-1; PTB-T; PTB2; PTB3; PTB4; pPTB; RNA-binding protein; heterogeneous nuclear ribonucleoprotein I; heterogeneous nuclear ribonucleoprotein polypeptid; hnRNP I/PTB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Heterogeneous nuclear ribonucleoprotein I (hnRNP I/PTB) ELISA Kit has high sensitivity and excellent specificity for detection of Human PTBP1. No significant cross-reactivity or interference between Human PTBP1 and analogues was observed.
Sequence Length	531
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Heterogeneous nuclear ribonucleoprotein I (hnRNP I/PTB) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for hnRNP I/PTB elisa kit	Description: This Human Heterogeneous nuclear ribonucleoprotein I (hnRNP I/PTB) ELISA Kit employs a two-site sandwich ELISA to quantitate PTBP1 in samples. An antibody specific for PTBP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTBP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTBP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PTBP1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: hnRNP I/PTB 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. Heterogeneous nuclear ribonucleoprotein I encoded by hnRNP I/PTB 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. Heterogeneous nuclear ribonucleoprotein I is localized in the nucleoplasm and it is also detected in the perinucleolar structure. Alternatively spliced transcript variants encoding different isoforms have been described.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	131528
NCBI GeneID	5725
UniProt Accession #	P26599
NCBI Official Full Name	Polypyrimidine tract-binding protein 1
NCBI Official Synonym Full Names	polypyrimidine tract binding protein 1
NCBI Official Symbol	PTBP1
NCBI Official Synonym Symbols	PTB; PTB2; PTB3; PTB4; pPTB; HNRPI; PTB-1; PTB-T; HNRNPI; HNRNP-I
NCBI Protein Information	polypyrimidine tract-binding protein 1
UniProt Protein Name	Polypyrimidine tract-binding protein 1
UniProt Gene Name	PTBP1
UniProt Synonym Gene Names	PTB; PTB; hnRNP I
UniProt Entry Name	PTBP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.