Rabbit PABP2 Polyclonal Antibody | anti-PABP2 antibody

Phospho-PABP2 (Ser150) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329420	**Rabbit**	**Human, Mouse, Rat, BovinePredicted Reactivity: Pig (100%), Zebrafish (80%), Horse (100%), Rabbit (100%), Dog (100%), Xenopus (100%)**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

PABP2; Polyclonal Antibody; Phospho-PABP2 (Ser150) Antibody; Nuclear poly (A)-binding protein 1; OPMD; PAB2; PABII; PABP 2; pABP-2; PABP2_HUMAN; PABPII; Pabpn1; poly (A) binding protein nuclear 1; Poly (A)-binding protein 2; Poly (A)-binding protein II; PolyA binding protein II; Polyadenylate-binding nuclear protein 1; Polyadenylate-binding protein 2; anti-PABP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine Predicted Reactivity: Pig (100%), Zebrafish (80%), Horse (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PABP2 (Ser150) Antibody detects endogenous levels of PABP2 only when phosphorylated at Ser150. Tissue Specificity: Ubiquitous.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PABP2 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PABP2 around the phosphorylation site of Ser150.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Arginine dimethylation is asymmetric and involves PRMT1 and PRMT3. It does not influence the RNA binding properties (By similarity).
Subunit Structure	May interact with SETX. Monomer and homooligomer. Binds RNA as a monomer and oligomerizes when bound to poly (A). Interacts with PAPOLA, but only in presence of oligo (A) RNA. Interacts with transportin. Identified in a IGF2BP1-dependent mRNP granule complex containing untranslated mRNAs. Association in a ternary complex with CPSF4 and influenza A virus NS1 blocks pre-mRNAs processing, thereby preventing nuclear export of host cell mRNAs. Associates in a single complex with SKIP and MYOD1 and interacts with SKIP in differentiated myocytes. Interacts with NUDT21/CPSF5. Interacts (via RRM domain and C-terminal arginine-rich region) with ZFP36 (via hypophosphorylated form); this interaction occurs in the nucleus in a RNA-independent manner, decreases in presence of single-stranded poly (A) RNA-oligomer and in a p38-dependent-manner and may down-regulated RNA poly (A) polymerase activity (By similarity). Component of the poly (A) tail exosome targeting (PAXT) complex made of accessory factors, such as PABPN1, ZFC3H1 and MTREX. Interacts with ZFC3H1 in a RNase-insensitive manner.
Similarity	The RRM domain is essential for specific adenine bases recognition in the poly (A) tail but not sufficient for poly (A) binding.

Subcellular Location	Nucleus. Cytoplasm. Nucleus speckle. Note: Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Shuttles between the nucleus and the cytoplasm but predominantly found in the nucleus (PubMed:10688363). Its nuclear import may involve the nucleocytoplasmic transport receptor transportin and a RAN-GTP-sensitive import mechanism (By similarity). Is exported to the cytoplasm by a carrier-mediated pathway that is independent of mRNA traffic. Colocalizes with SKIP and poly (A) RNA in nuclear speckles (By similarity). Intranuclear filamentous inclusions or 'aggregates' are detected in the myocytes of patients; these inclusions contain PABPN1, ubiquitin, subunits of the proteasome and poly (A) RNA.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data
At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



IHC (Immunohiostchemistry)
Staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from cos-7, using Phospho-PABP2(Ser150) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PABP2 antibody	Involved in the 3'-end formation of mRNA precursors (pre-mRNA) by the addition of a poly (A) tail of 200-250 nt to the upstream cleavage product (By similarity). Stimulates poly (A) polymerase (PAPOLA) conferring processivity on the poly (A) tail elongation reaction and controls also the poly (A) tail length (By similarity). Increases the affinity of poly (A) polymerase for RNA (By similarity). Is also present at various stages of mRNA metabolism including nucleocytoplasmic trafficking and nonsense-mediated decay (NMD) of mRNA. Cooperates with SKIP to synergistically activate E-box-mediated transcription through MYOD1 and may regulate the expression of muscle-specific genes. Binds to poly (A) and to poly (G) with high affinity (By similarity). May protect the poly (A) tail from degradation (By similarity). Subunit of the trimeric poly (A) tail exosome targeting (PAXT) complex, a complex that directs a subset of long and polyadenylated poly (A) RNAs for exosomal degradation. The RNA exosome is fundamental for the degradation of RNA in eukaryotic nuclei. Substrate targeting is facilitated by its cofactor MTREX, which links to RNA-binding protein adapters.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758876
NCBI GeneID	8106
NCBI Accession #	NP_004634.1
NCBI GenBank Nucleotide #	NM_004643.3
UniProt Accession #	Q86U42; O43484; D3DS49
Molecular Weight	32749 MW
NCBI Official Full Name	polyadenylate-binding protein 2
NCBI Official Synonym Full Names	poly(A) binding protein nuclear 1

NCBI Official Symbol	PABPN1
NCBI Official Synonym Symbols	OPMD; PAB2; PABII; PABP2; PABP-2
NCBI Protein Information	polyadenylate-binding protein 2
UniProt Protein Name	Polyadenylate-binding protein 2
UniProt Gene Name	**PABPN1**
UniProt Synonym Gene Names	PAB2; PABP2; PABP-2; Poly(A)-binding protein 2; PABII

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/pabp2-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/329420