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PABPN1 Recombinant Mouse mAb

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Catalog # AP94434

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG1, Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasmic and Nuclear.
SIMILARITY	Contains 1 RRM (RNA recognition motif) domain.
SUBUNIT	May interact with SETX (PubMed:21700224). 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.
Post-translational modifications	Arginine dimethylation is asymmetric and involves PRMT1 and PRMT3. It does not influence the RNA binding properties (By similarity).
DISEASE	The disease is caused by mutations affecting the gene represented in this entry. Disease description:A form of late-onset slowly progressive myopathy characterized by eyelid ptosis, dysphagia and, sometimes by other cranial and limb-muscle involvement.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an abundant nuclear protein that binds with high affinity to nascent poly(A) tails. The protein is required for progressive and efficient polymerization of poly(A) tails at the 3' ends of eukaryotic transcripts and controls the size of the poly(A) tail to about 250 nt. At steady-state, this protein is localized in the nucleus whereas a different poly(A) binding protein is localized in the cytoplasm. This gene contains a GCG trinucleotide repeat at the 5' end of the coding region, and expansion of this repeat from the normal 6 copies to 8-13 copies leads to autosomal dominant oculopharyngeal muscular dystrophy (OPMD) disease. Related pseudogenes have been identified on chromosomes 19 and X. Read-through transcription also exists between this gene and the neighboring upstream BCL2-like 2 (BCL2L2) gene. [provided by RefSeq, Dec 2010]

Additional Information

Target/Specificity	Ubiquitous.
Dilution	WB=1:500-1:1000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50,IF=0
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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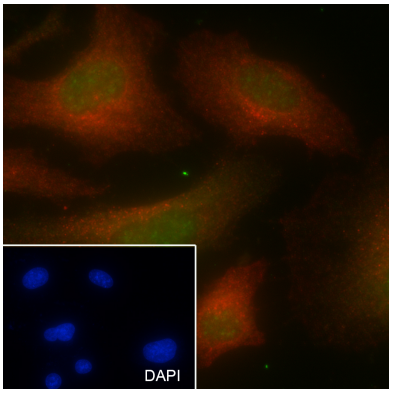
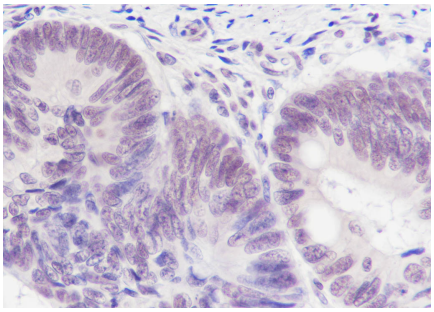
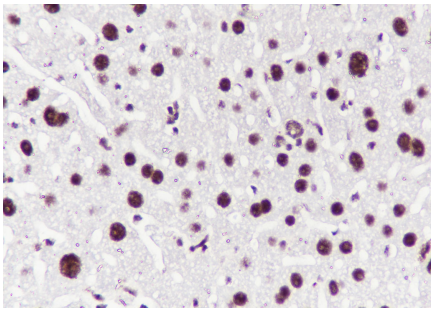
Images



Cell line: HeLa Fixative: 100% Ice-cold methanol Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight Nuclear counter stain: DAPI (Blue) Counter stain: Tubulin (Red) Comment: Color green is the positive signal for AP94434

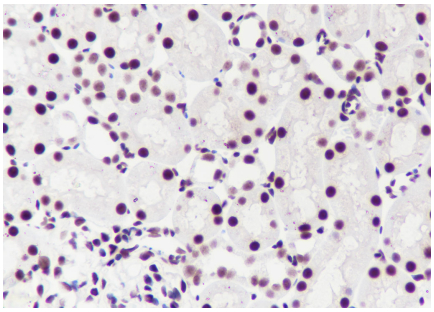


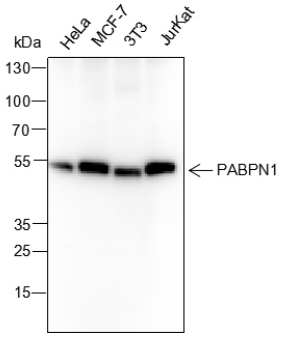
Tissue: Human colon cancer Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary ab incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94434



Tissue: Mouse liver Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary ab incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94434

Tissue: Rat kidney Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary ab incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94434





Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:1000 Primary ab incubation condition: 4°C overnight Lysate: HeLa, MCF-7, 3T3, Jurkat Protein loading quantity: 20 µg Exposure time: 30 s Predicted MW: 56 kDa Observed MW: 54 kDa