Product Name: KD-Validated Poly(A) Binding Protein Nuclear 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00997
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 32.7kDa

Antigen Information

Gene Name	PABPN1
Alternative Names	PABPN1; Poly(A) Binding Protein Nuclear 1; PAB2 ; PABP2; Polyadenylate-Binding Protein 2; PABP-2; PABII; OPMD; Polyadenylate-Binding Nuclear Protein 1; Poly(A)-Binding Protein, Nuclear 1; Poly(A) Binding Protein, Nuclear 1; Nuclear Poly(A)-Binding Protein 1; Poly(A) Binding Protein II; Poly(A)-Binding Protein II; Poly(A) Binding Protein 2; Poly(A)-Binding Protein 2
Gene ID	8106.0
SwissProt ID	Q86U42
Immunogen	A synthesized peptide derived from human PABPN1

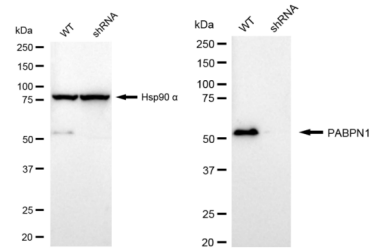
Background

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]

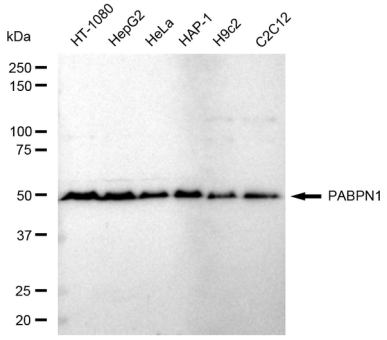
Research Area

Epigenetics and Nuclear Signaling

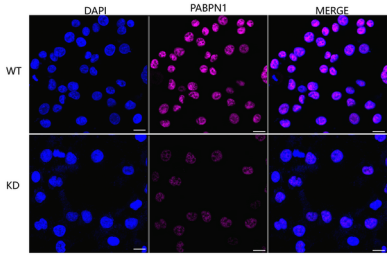
Image Data



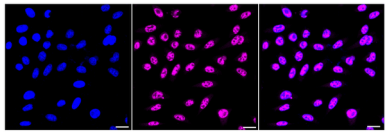
Western blotting analysis using PABPN1 antibody (KVAb00997). PABPN1 expression in wild type (WT) and PABPN1 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PABPN1 antibody (KVAb00997, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



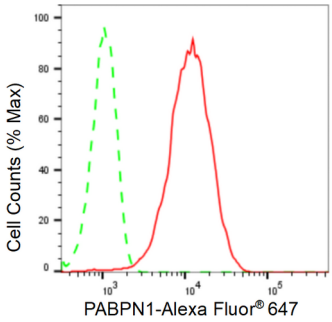
Western blotting analysis using PABPN1 antibody (KVAb00997). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PABPN1 antibody (KVAb00997, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT1080 cells using PABPN1 antibody (KVAb00997, 1:1,000), Top panel: wild-type (WT); Bottom panal: PABPN1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; PABPN1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of Hela cells with PABPN1 antibody (KVAb00997, 1:1,000). Nuclei were stained blue with DAPI; PABPN1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of PABPN1 expression in HepG2 cells using PABPN1 antibody (KVAb00997, 1:2,000). Green, isotype control; red, PABPN1.