9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

PABPN1 Human

Poly(A) Binding Protein, Nuclear 1 Human Recombinant
RCP1581

Product Overview

Name	PABPN1 Human
Description	
Poly(A) Binding Protein, Nuclear 1 Human Recombinant	
Accession (Primary)	Q86U42
Synonyms	
Poly(A) Binding Protein Nuclear 1, Poly(A) Binding Protein 2, Polyadenylate-Binding Nuclear Protein 1, PABP-2, OPMD, PAB2, Nuclear Poly(A)-Binding Protein 1, PABII.	
Introduction	
PABPN1 is an highly expressed nuclear protein which has high affinity to nascent poly(A) tails. PABPN1 is essential for progressive and efficient polymerization of poly(A) tails at the 3' ends of eukaryotic transcripts and regulates the length of the poly(A) tail to about 250 nt. In its steady-state, PABPN1 is restricted to the nucleus however there are different poly(A) binding proteins which can be found in the cytoplasm. PABPN1 has a GCG trinucleotide repeat at the 5' end of the coding region. Expansion of this repeat from the normal 6 copies to 8-13 copies results in autosomal dominant oculopharyngeal muscular dystrophy (OPMD) disease. Associated pseudogenes were located on chromosomes 19 and X. Additionally, there is a read-through transcription between PABPN1 gene and the adjacent upstream BCL2L2 (BCL2-like 2) gene.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
The PABPN1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGS LEAIKAR VREMEEEAEK LKELQNEVEK QMNMSPPPGN AGPVIMSIEE KMEADARSIY VGNVDYGATA EELEAHFHGC GSVNRVTILC DKFSGHPKGF AYIEFSDKES VRTSLALDES LFRGRQIKVI PKRTNRPGIS TTDRGFPRAR YRARTTNYNS SRSRFYSGFN SRPRGRVYRG RARATSWYSP Y

Precautions

PABPN1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q86U42)