PABP1 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 71	Source: Rabbit	UniProt ID: #P11940	Entrez-Gene Id: 26986	
Product Usage Information	We	plication stern Blotting nunohistochemistry	(Paraffin)			ution 000 00	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensiti	ivity PAB	PABP1 Antibody detects endogenous levels of total PABP1 and PABP3 proteins.					
Species predicted t react based on 100 sequence homolog	%	Xenopus, Zebrafish, Bovine					
Source / Purificatio	amir	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids at the amino-terminus of human PABP1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	is a RNA of th shov (3,4) beer Arg2	Poly(A)-binding protein 1 (PABP1) associates with the 3' poly(A) tail of mRNA and also eIF4F (1,2). eIF4F is a complex whose functions include the recognition of the mRNA 5' cap structure (eIF4E), delivery of an RNA helicase to the 5' region (eIF4A), bridging of the mRNA and the ribosome (eIF4G), and circularization of the mRNA via interaction between eIF4G and the poly(A) binding protein (PABP). PABP1 has been shown to have multiple functions including translation initiation, mRNA stabilization, and mRNA turnover (3,4). Phosphorylation of PABP has been shown to enhance RNA binding in eukaryotes, and PABP1 has been shown to shuttle between the nucleus and cytoplasm (5,6). PABP1 is methylated on Arg455 and Arg460 by the CARM1 protein methyltransferase (7,8); however, the function of this methylation has yet to be determined.					
Background Refere	2. Pi 3. Ci 4. Si 5. Le 6. Af 7. Le	 Sachs, A. B. et al. (1986) <i>Cell</i> 45, 827-835. Piron, M. et al. (1998) <i>EMBO J.</i> 17, 5811-5821. Caponigro, G. and Parker, R. (1995) <i>Genes Dev.</i> 9, 2421-2432. Sachs, A.B. and Davis, R.W. (1989) <i>Cell</i> 58, 857-867. Le, H. et al. (2000) <i>J. Biol. Chem.</i> 275, 17452-17462. Afonina, E. et al. (1998) <i>J. Biol. Chem.</i> 273, 13015-13021. Lee, J. and Bedford, M.T. (2002) <i>EMBO Rep</i> 3, 268-73. Yadav, N. et al. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 6464-8. 					
Species Reactivity	Spec	ies reactivity is deter	mined by testing in	n at least one appro	ved application (e.g., wes	tern blot).	
Western Blot Buffe		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB:	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivity K	X: Xe	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected					

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Limited Uses

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