



Rabbit Anti-PABP (Methyl Arg455/460) antibody

SL3836R

Product Name:	PABP (Methyl Arg455/460)
Chinese Name:	甲基化多聚腺苷酸Binding protein抗体
Alias:	PABP (Methyl Arg455/Arg460); Methyl PABP (Arg455/Arg460); Methyl PABP (Arg455/460); PAB 1; PAB1; PABP 1; PABP1; PABP-1; PABPC 1; PABPC1; PABPC2; PABPL1v Poly A binding protein 1; Poly A binding protein cytoplasmic 1; Polyadenylate binding protein 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	75kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised methylpeptide derived from human PABP around the methylation site of Arg455/Arg460:GAI(Me-R)PAAP(Me-R)PP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	This gene encodes a poly(A) binding protein. The protein shuttles between the nucleus and cytoplasm and binds to the 3' poly(A) tail of eukaryotic messenger RNAs via RNA-

recognition motifs. The binding of this protein to poly(A) promotes ribosome recruitment and translation initiation; it is also required for poly(A) shortening which is the first step in mRNA decay. The gene is part of a small gene family including three protein-coding genes and several pseudogenes.[provided by RefSeq, Aug 2010].

Function:

Binds the poly(A) tail of mRNA. May be involved in cytoplasmic regulatory processes of mRNA metabolism such as pre-mRNA splicing. Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2. Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. Involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. Involved in regulation of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons; for the recognition of premature termination codons (PTC) and initiation of NMD a competitive interaction between UPF1 and PABPC1 with the ribosome-bound release factors is proposed.

Subunit:

Component of a multi subunit autoregulatory ribonucleoprotein complex (ARC), at least composed of IGF2BP1, PABPC1 and CSDE1.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

Ubiquitous.

Post-translational modifications:

Phosphorylated by MAPKAPK2.

Methylated by CARM1. Arg-493 is dimethylated, probably to asymmetric dimethylarginine.

Similarity:

Belongs to the polyadenylate-binding protein type-1 family.

Contains 1 PABC domain.

Contains 4 RRM (RNA recognition motif) domains.

SWISS:

P11940

Gene ID:

26986

Database links:

[Entrez Gene: 26986](#)Human

[Entrez Gene: 18458](#)Mouse

[Entrez Gene: 171350](#)Rat

[Omin: 604679](#)Human

[SwissProt: P11940](#)Human

[SwissProt: P29341](#)Mouse

[SwissProt: Q9EPH8](#)Rat

[Unigene: 387804](#)Human

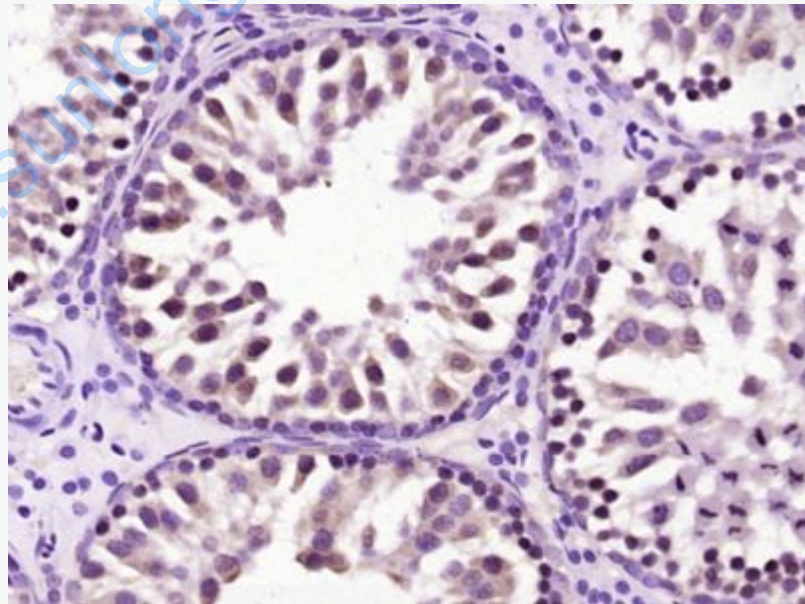
[Unigene: 371570](#)Mouse

[Unigene: 127813](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for

30min; Antibody incubation with (PABP (Methyl Arg455,460)) Polyclonal Antibody, Unconjugated (SL3836R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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