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Datasheet for ABIN6944728 **anti-PUM1 antibody**

Overview

Quantity:	100 µL
Target:	PUM1
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PUM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant protein within human Pumilio 1 aa 1-200.
Clone:	7B2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

Target Details

Target:	PUM1
Alternative Name:	PUM1 (PUM1 Products)

Target Details

Background:	<p>Synonyms: Pumilio homolog 1, HsPUM, Pumilio-1, PUM1, PUMH, HSPUM, PUMH1, PUML1, SCA47</p> <p>Background: Sequence-specific RNA-binding protein that acts as a post-transcriptional repressor by binding the 3'-UTR of mRNA targets. Binds to an RNA consensus sequence, the Pumilio Response Element (PRE), 5'-UGUANAUA-3', that is related to the Nanos Response Element (NRE). Mediates post-transcriptional repression of transcripts via different mechanisms: acts via direct recruitment of the CCR4-POP2-NOT deadenylase leading to translational inhibition and mRNA degradation. Also mediates deadenylation-independent repression by promoting accessibility of miRNAs. Following growth factor stimulation, phosphorylated and binds to the 3'-UTR of CDKN1B/p27 mRNA, inducing a local conformational change that exposes miRNA-binding sites, promoting association of miR-221 and miR-222, efficient suppression of CDKN1B/p27 expression, and rapid entry to the cell cycle. Acts as a post-transcriptional repressor of E2F3 mRNAs by binding to its 3'-UTR and facilitating miRNA regulation. Involved in neuronal functions by regulating ATXN1 mRNA levels: acts by binding to the 3'-UTR of ATXN1 transcripts, leading to their down-regulation independently of the miRNA machinery. Plays a role in cytoplasmic sensing of viral infection. In testis, acts as a post-transcriptional regulator of spermatogenesis by binding to the 3'-UTR of mRNAs coding for regulators of p53/TP53. Involved in embryonic stem cell renewal by facilitating the exit from the ground state: acts by targeting mRNAs coding for naive pluripotency transcription factors and accelerates their down-regulation at the onset of differentiation.</p>
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Gene ID:	9698
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UniProt:	Q14671
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Application Details

Application Notes:	WB 1:300-5000 FCM 1:20-100 IHC-P 1:200-400 IF(IHC-P) 1:50-200 IF(ICC) 1:50-200
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Handling

Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 2 weeks. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	12 months