

Datasheet for ABIN6264529 anti-PUM1 antibody (Internal Region)

Image



Overview

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Quantity:	100 µL
Target:	PUM1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PUM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A synthesized peptide derived from human PUM1, corresponding to a region within the internal amino acids.
Isotype:	lgG
Specificity:	PUM1 Antibody detects endogenous levels of total PUM1.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	PUM1				
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Target Details	
Alternative Name:	PUM1 (PUM1 Products)
Background:	Description: 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) (PubMed:21572425, PubMed:18328718, PubMed:21653694,
	PubMed:21397187). 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 (PubMed:22955276). Also mediates
	deadenylation-independent repression by promoting accessibility of miRNAs
	(PubMed:18776931, PubMed:20818387, PubMed:20860814, PubMed:22345517). 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 (PubMed:20818387). Acts as a post-transcriptional repressor of
	E2F3 mRNAs by binding to its 3'-UTR and facilitating miRNA regulation (PubMed:22345517).
	Represses a program of genes necessary to maintain genomic stability such as key mitotic,
	DNA repair and DNA replication factors. Its ability to repress those target mRNAs is regulated
	by the IncRNA NORAD (non-coding RNA activated by DNA damage) which, due to its high
	abundance and multitude of PUMILIO binding sites, is able to sequester a significant fraction of
	PUM1 and PUM2 in the cytoplasm (PubMed:26724866). 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 (PubMed:25768905). Plays a role
	in cytoplasmic sensing of viral infection (PubMed:25340845). 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 (By similarity). Binds
	specifically to miRNA MIR199A precursor, with PUM2, regulates miRNA MIR199A expression at
	a postranscriptional level (PubMed:28431233).
	Gene: PUM1
Molecular Weight:	126 kDa
Gene ID:	9698
UniProt:	Q14671

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Application Details			
Application Notes:	WB 1:1000-3000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 mg/mL		
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.		
Storage:	-20 °C		

Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date:

Images



12 months

Western Blotting

Image 1. Western blot analysis of PUM1 using HuvEc whole lysates.

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