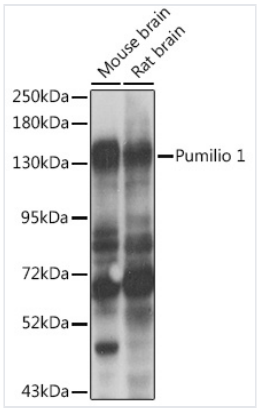
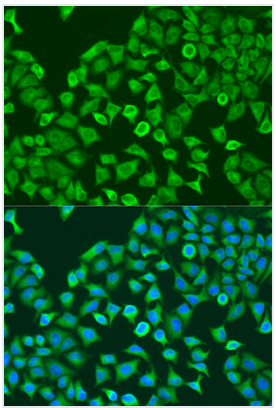
PUM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PUM1, Polyclonal Antibody
Full Product Name	PUM1 Rabbit Polyclonal Antibody
Product Gene Name	anti-PUM1 antibody
Product Synonym Names	PUM1; HSPUM; PUMH; PUMH1; PUML1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	124,420 Da
3D Structure	ModBase 3D Structure for Q14671
Immunogen	Recombinant fusion protein of human Pumilio 1 (NP_055491.1).
Product Categories/Family for anti-PUM1 antibody	Primary Antibody
Applications Tested/Suitable for anti-PUM1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-PUM1 antibody	WB: 1:500-1:1000 IF: 1:50-1:100
Related Product Information for anti-PUM1 antibody	This gene encodes a member of the PUF family, evolutionarily conserved RNA-binding proteins related to the Pumilio proteins of Drosophila and the fem-3 mRNA binding factor proteins of C. elegans. The encoded protein contains a sequence-specific RNA binding domain comprised of eight repeats and N- and C-terminal flanking regions, and serves as a translational regulator of specific mRNAs by binding to their 3' untranslated regions. The evolutionarily conserved function of the encoded protein in invertebrates and lower vertebrates suggests that the human protein may be involved in translational regulation of embryogenesis, and cell development and differentiation. Alternatively spliced transcript variants encoding different isoforms have been described.
Other Notes	Small volumes of anti-PUM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PUM1 purchase	MBS9466024 is an antibody targeting PUM1. Also known as PUM1 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PUM1 antibody
Western blot analysis of extracts of various cell lines, using Pumilio 1 antibody.



Immunofluorescence (IF) of anti-PUM1 antibody
Immunofluorescence analysis of U2OS cells using Pumilio 1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PUM1. It may not necessarily be applicable to this product.

NCBI GI #	66932909
NCBI GeneID	9698
NCBI Accession #	NP_001018494.1
UniProt Primary Accession #	Q14671
UniProt Secondary Accession #	Q53HH5; Q5VXY7; Q9HAN1; A8K6W4; B4DG92; D3DPN3; E9PCJ0
UniProt Related Accession #	Q14671
GenBank Nucleotide #	NM_001020658.1
NCBI Official Full Name	pumilio homolog 1 isoform 1
NCBI Official Synonym Full Names	pumilio RNA binding family member 1
NCBI Official Symbol	PUM1
NCBI Official Synonym Symbols	PUMH; HSPUM; PUMH1; PUML1; SCA47
UniProt Protein Name	Pumilio homolog 1
Protein Family	Pumilio
UniProt Gene Name	PUM1
UniProt Synonym Gene Names	HsPUM; Pumilio-1
NCBI Protein Information	pumilio homolog 1

UniProt Comments for PUM1	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 lncRNA 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 (). Binds specifically to miRNA MIR199A precursor, with PUM2, regulates miRNA MIR199A expression at a postranscriptional level (PubMed:28431233).
Research Articles on PUM1	**1.** PUM1 SNP is associated with Osteoporosis and Obesity.
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