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Datasheet for ABIN7118125
anti-PUM2 antibody

Overview

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|--------------|-------------------------------------|
| Quantity: | 100 µg |
| Target: | PUM2 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PUM2 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

| | |
|---------------|---------------------------------|
| Immunogen: | pumilio homolog 2(Drosophila) |
| Isotype: | IgG |
| Purification: | Immunogen affinity purified |
| Purity: | ≥95 % as determined by SDS-PAGE |

Target Details

| | |
|-------------------|--|
| Target: | PUM2 |
| Alternative Name: | PUM2 (PUM2 Products) |
| Background: | Synonyms:KIAA0235, PUMH2 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)(, PubMed:21397187). Mediates post-transcriptional |

Target Details

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:22345517). Acts as a post-transcriptional repressor of E2F3 mRNAs by binding to its 3'-UTR and facilitating miRNA regulation(PubMed:22345517). Plays a role in cytoplasmic sensing of viral infection(PubMed:25340845). 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). May regulate DCUN1D3 mRNA levels(PubMed:25349211). May support proliferation and self-renewal of stem cells.

Molecular Weight: 140 kDa

Gene ID: 23369

UniProt: [Q8TB72](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

Application Details

Application Notes: WB: 1:500-1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

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: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months