Anti-Pumilio 1 Antibody [JG37-75]

ET7108-13

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IHC-P, FC, IP, IF-Cell, IF-Tissue
Molecular Wt:	Predicted band size: 126 kDa
Clone number:	JG37-75

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). 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.

Immunogen: Recombinant protein within Human Pumilio 1 aa 79-223 .

Positive control: SiHa cell lysate, 293T, SiHa, human colon tissue, human appendix tissue, mouse kidney tissue, mouse small intestine tissue.

Subcellular location: Cytoplasm. Nucleus.

Database links: SwissProt: Q14671 Human | Q80U78 Mouse

Recommended Dilutions:

WB	1:1,000-1:2,000
IF-Cell	1:50-1:200
IF-Tissue	1:50-1:200
IHC-P	1:50-1:200
FC	1:50-1:100
IP	1:10-1:50

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

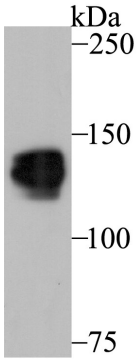

Fig1: Western blot analysis of Pumilio 1 on SiHa cell lysate using anti-Pumilio 1 antibody at 1/1,000 dilution.

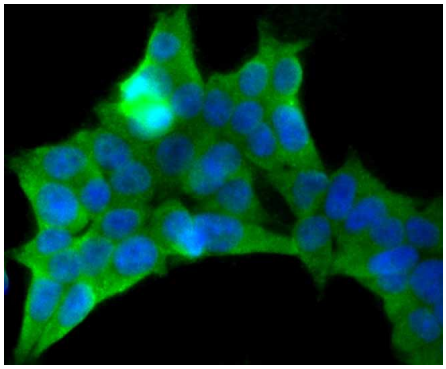

Fig2: ICC staining Pumilio 1 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

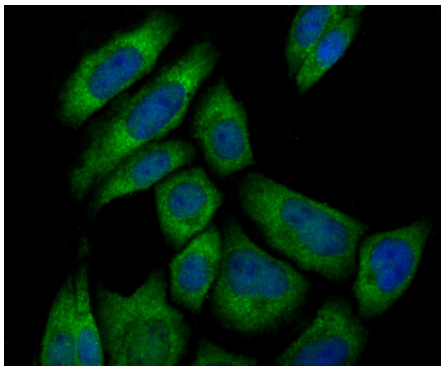

Fig3: ICC staining Pumilio 1 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

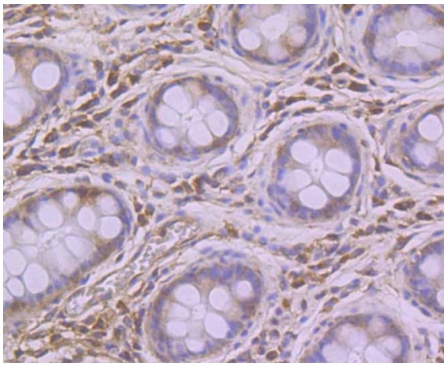

Fig4: Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-Pumilio 1 antibody. Counter stained with hematoxylin.

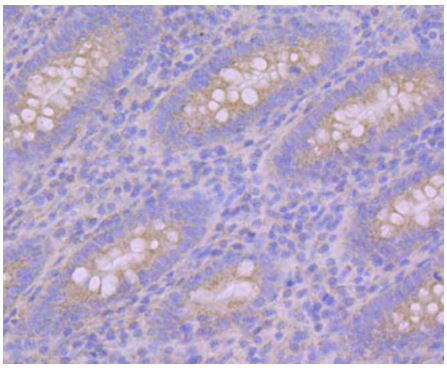

Fig5: Immunohistochemical analysis of paraffin-embedded human appendix tissue using anti-Pumilio 1 antibody. Counter stained with hematoxylin.

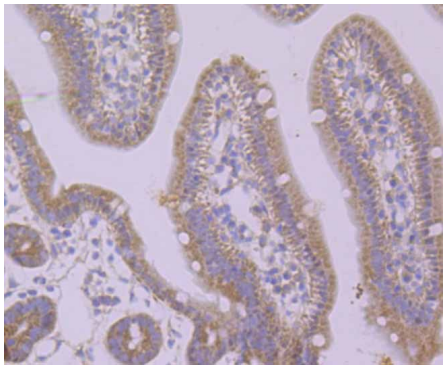

Fig6: Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-Pumilio 1 antibody. Counter stained with hematoxylin.

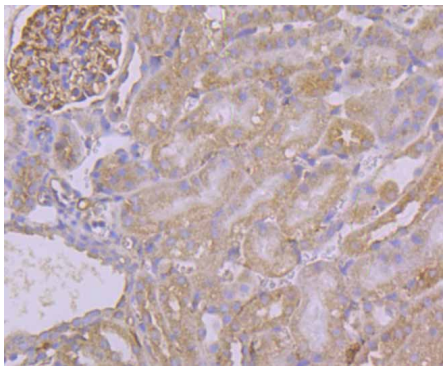

Fig7: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Pumilio 1 antibody. Counter stained with hematoxylin.

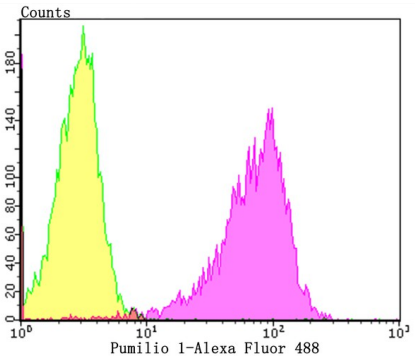

Fig8: Flow cytometric analysis of 293T cells with Pumilio 1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow).Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Lee S et al. Noncoding RNA NORAD regulates genomic stability by sequestering PUMILIO proteins. Cell 164:69-80 (2016).
2. Narita R et al. A novel function of human Pumilio proteins in cytoplasmic sensing of viral infection. PLoS Pathog 10:E1004417-E1004417 (2014).