

Endonuclease V Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55637

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8C9A2
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37174

Additional Information

Gene ID	338371
Other Names	Endonuclease V, 3.1.26.-, Endov
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Endov
Function	Endoribonuclease that specifically cleaves inosine-containing RNAs: cleaves RNA at the second phosphodiester bond 3' to inosine. Active against both single-stranded and double-stranded RNAs. Has strong preference for single-stranded RNAs (ssRNAs) toward double-stranded RNAs (dsRNAs). Cleaves mRNAs and tRNAs containing inosine. Also able to cleave structure-specific dsRNA substrates containing the specific sites 5'-IIUI-3' and 5'-UIUU-3'. Inosine is present in a number of RNAs following editing; the function of inosine-specific endoribonuclease is still unclear: it could either play a regulatory role in edited RNAs, or be involved in antiviral response by removing the hyperedited long viral dsRNA genome that has undergone A-to-I editing. Binds branched DNA structures.
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q8N8Q3}. Nucleus, nucleolus {ECO:0000250 UniProtKB:Q8N8Q3}. Cytoplasm, Stress granule {ECO:0000250 UniProtKB:Q8N8Q3}. Note=Relocalizes to cytoplasmic stress granules upon cellular stress where it colocalizes with PABPC1 {ECO:0000250 UniProtKB:Q8N8Q3}

Tissue Location

Highest levels detected in liver with high levels also found in heart, kidney and testis. Expressed at low levels in brain.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.