

C12ORF29 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59435

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N999
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37490

Additional Information

Gene ID	91298
Other Names	Uncharacterized protein C12orf29, C12orf29
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,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	RLIG1 (HGNC:25322)
Function	Functions as an RNA ligase, in vitro (PubMed: 36792600). The ligation reaction entails three nucleotidyl transfer steps (PubMed: 36792600). In the first step, the RNA ligase reacts with ATP in the absence of nucleic acid to form a covalent ligase-AMP intermediate and release pyrophosphate (PubMed: 36792600). In step 2, the ligase-AMP binds to the nucleic acid and transfers the adenylate to the 5'-PO4 terminus to form an adenylated intermediate (PubMed: 36792600). In step 3, the RNA ligase directs the attack of the 3'-OH on the 5'- phosphoanhydride linkage, resulting in a repaired 3'-5' phosphodiester and release of AMP (PubMed: 36792600). Exhibits selectivity for single- stranded RNA substrates and may not have nick-sealing activity on double-stranded DNA-RNA hybrids (PubMed: 36792600). May play a role in maintaining RNA integrity under stress conditions, for example in response to reactive oxygen species (ROS) (PubMed: 36792600).