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Anti-PARP12 Antibody

Catalog # AP93294

Product Information

Application	WB
Primary Accession	Q9H0J9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79064

Additional Information

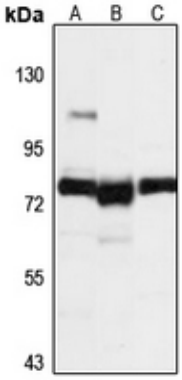
Gene ID	64761
Other Names	ZC3HDC1; Poly [ADP-ribose] polymerase 12; PARP-12; ADP-ribosyltransferase diphtheria toxin-like 12; ARTD12; Zinc finger CCCH domain-containing protein 1
Target/Specificity	Recombinant fusion protein of human PARP12. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/2000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	PARP12 {ECO:0000303|PubMed:20106667, ECO:0000312|HGNC:HGNC:21919}
Function	Mono-ADP-ribosyltransferase that mediates mono-ADP- ribosylation of target proteins (PubMed:25043379, PubMed:34969853). Acts as an antiviral factor by cooperating with PARP11 to suppress Zika virus replication (PubMed:34187568). Displays anti-alphavirus activity during IFN-gamma immune activation by directly ADP-ribosylating the alphaviral non-structural proteins nsP3 and nsP4 (PubMed:39888989). Acts as a component of the PRKD1-driven regulatory cascade that selectively controls a major branch of the basolateral transport pathway by catalyzing the MARylation of GOLGA1 (PubMed:34969853). Acts also as a key regulator of mitochondrial function, protein translation, and inflammation. Inhibits PINK1/Parkin-dependent mitophagy and promotes cartilage degeneration by inhibiting the ubiquitination and SUMOylation of MFN1/2 by up-regulating ISG15 and ISGylation (PubMed:39465252).

Cellular Location	Nucleus. Golgi apparatus, trans- Golgi network. Cytoplasm, Stress granule. Note=Translocates from the Golgi complex to stress granules upon stress conditions

Images



Western blot analysis of PARP12 expression in HeLa (A), mouse liver (B), rat brain (C) whole cell lysates. (Predicted band size: 79 kD; Observed band size: 79 kD)

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