

DDRGK1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58942**Specification**

DDRGK1 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96HY6
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35611

DDRGK1 Polyclonal Antibody - Additional Information**Gene ID** 65992**Other Names**

DDRGK domain-containing protein 1, Dashurin, UFM1-binding and PCI domain-containing protein 1, DDRGK1 {ECO:0000303|PubMed:20228063, ECO:0000312|HGNC:HGNC:16110}

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

DDRGK1 Polyclonal Antibody - Protein Information**Name** DDRGK1 {ECO:0000303|PubMed:20228063, ECO:0000312|HGNC:HGNC:16110}**Function**

Substrate adapter for ufmylation, the covalent attachment of the ubiquitin-like modifier UFM1 to substrate proteins, which plays a key role in reticulophagy (also called ER-phagy) (PubMed:32160526). In response to endoplasmic reticulum stress, promotes recruitment of the E3 UFM1-protein ligase UFL1 to the endoplasmic reticulum membrane: in turn, UFL1 mediates ufmylation of proteins such as RPN1 and RPL26/uL24, promoting reticulophagy of endoplasmic reticulum sheets (PubMed:32160526). Ufmylation-dependent reticulophagy inhibits the unfolded protein response (UPR) by regulating ERN1/IRE1-alpha stability (PubMed:28128204, PubMed:32160526). Ufmylation in response to endoplasmic reticulum stress is essential for processes such as hematopoiesis or inflammatory response (By similarity). Required for TRIP4 ufmylation, thereby regulating nuclear receptors-mediated. transcription (PubMed:25219498). May play a role in NF-kappa-B-mediated transcription through regulation of the phosphorylation and the

degradation of NFKBIA, the inhibitor of NF-kappa-B (PubMed:23675531). Plays a role in cartilage development through SOX9, inhibiting the ubiquitin-mediated proteasomal degradation of this transcriptional regulator (PubMed:28263186).

Cellular Location

Endoplasmic reticulum. Endoplasmic reticulum membrane. Note=Localizes to the endoplasmic reticulum membrane in response to endoplasmic reticulum stress.

Tissue Location

Widely expressed (at protein level). In the brain, highest levels in medulla oblongata, followed by cerebral cortex, cerebellum and frontal lobe.

DDRGK1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DDRGK1 Polyclonal Antibody - Images