

C20orf116 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13078**Specification**

C20orf116 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O96HY6
Other Accession	NM_023935 , NP_076424
Reactivity	Human, Rabbit, Horse, Bovine, Dog
Predicted	Human, Rabbit, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa kDa

C20orf116 antibody - N-terminal region - Additional Information**Gene ID** 65992**Alias Symbol** MGC2592, dJ1187M17.3, UFBP1, C20orf116**Other Names**DDRGK domain-containing protein 1, UFM1-binding and PCI domain-containing protein 1, DDRGK1
(http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=16110)
target="_blank">HGNC:16110)**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-C20orf116 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

C20orf116 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

C20orf116 antibody - N-terminal region - 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- α stability (PubMed: [28128204](http://www.uniprot.org/citations/28128204), PubMed: [32160526](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/25219498)). May play a role in NF- κ B-mediated transcription through regulation of the phosphorylation and the degradation of NFKBIA, the inhibitor of NF- κ B (PubMed: [23675531](http://www.uniprot.org/citations/23675531)). Plays a role in cartilage development through SOX9, inhibiting the ubiquitin-mediated proteasomal degradation of this transcriptional regulator (PubMed: [28263186](http://www.uniprot.org/citations/28263186)).

Cellular Location

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

Tissue Location

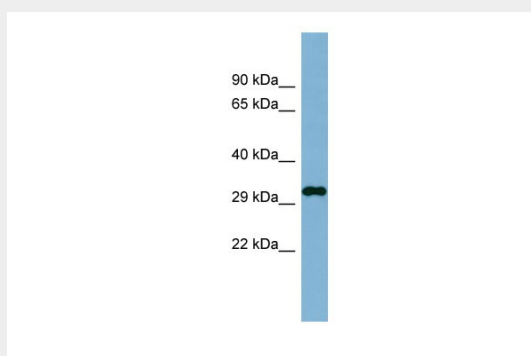
Widely expressed (at protein level). In the brain, highest levels in medulla oblongata, followed by cerebral cortex, cerebellum and frontal lobe.

C20orf116 antibody - N-terminal region - 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](#)

C20orf116 antibody - N-terminal region - Images



WB Suggested Anti-C20orf116 Antibody Titration: 0.2-1 μ g/ml

ELISA Titer: 1:62500

Positive Control: Human Stomach

C20orf116 antibody - N-terminal region - References

Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Deloukas P.,et al.Nature 414:865-871(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Tatsumi K.,et al.J. Biol. Chem. 285:5417-5427(2010).
Wu J.,et al.J. Biol. Chem. 285:15126-15136(2010).