

Ddit4 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14099**Specification**

Ddit4 Antibody - N-terminal region - Product Information

Application	WB
Primary Accession	Q8VHZ9
Other Accession	NM_080906 , NP_543182
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25kDa KDa

Ddit4 Antibody - N-terminal region - Additional Information**Gene ID** 140942**Alias Symbol** **Rtp801****Other Names**

DNA damage-inducible transcript 4 protein, HIF-1 responsive protein RTP801, Protein regulated in development and DNA damage response 1, REDD-1, Ddit4, Redd1, Rtp801

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-Ddit4 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

Ddit4 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Ddit4 Antibody - N-terminal region - Protein Information**Name** Ddit4**Synonyms** Redd1, Rtp801**Function**

Regulates cell growth, proliferation and survival via inhibition of the activity of the mammalian target of rapamycin complex 1 (mTORC1). Inhibition of mTORC1 is mediated by a pathway that involves DDIT4/REDD1, AKT1, the TSC1-TSC2 complex and the GTPase RHEB. Plays an important role in responses to cellular energy levels and cellular stress, including responses to hypoxia and

DNA damage. Regulates p53/TP53-mediated apoptosis in response to DNA damage via its effect on mTORC1 activity. Its role in the response to hypoxia depends on the cell type; it mediates mTORC1 inhibition in fibroblasts and thymocytes, but not in hepatocytes. Required for mTORC1-mediated defense against viral protein synthesis and virus replication (By similarity). Inhibits neuronal differentiation and neurite outgrowth mediated by NGF via its effect on mTORC1 activity. Required for normal neuron migration during embryonic brain development. Plays a role in neuronal cell death.

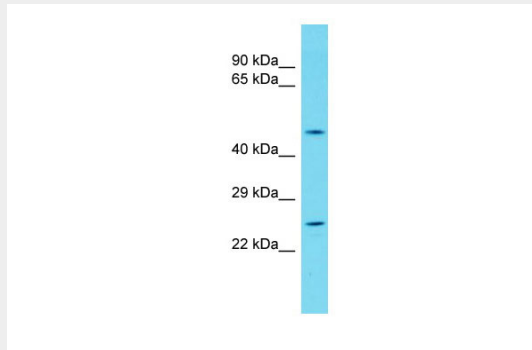
Cellular Location

Mitochondrion. Cytoplasm, cytosol

Ddit4 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](#)

Ddit4 Antibody - N-terminal region - Images

Host: Rabbit

Target Name: Ddit4

Sample Tissue: Rat Thymus lysates

Antibody Dilution: 1.0µg/ml

Ddit4 Antibody - N-terminal region - References

Shoshani T., et al. Mol. Cell. Biol. 22:2283-2293(2002).
Brafman A., et al. Invest. Ophthalmol. Vis. Sci. 45:3796-3805(2004).
Wang H., et al. J. Biol. Chem. 281:39128-39134(2006).
Malagelada C., et al. J. Neurosci. 26:9996-10005(2006).
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