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Ddit4 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14099

Product Information

Application	WB
Primary Accession	Q8VHZ9
Other Accession	NM_080906, NP_543182
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24885

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.

Protein Information

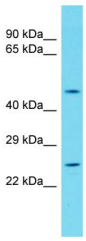
Name	Ddit4
Synonyms	Redd1, Rtp801
Function	Regulates cell growth, proliferation and survival via inhibition of the activity of the mammalian target of rapamycin complex 1 (mTORC1). Inhibition of mTORC1 is mediated by a pathway that involves DDIT4/REDD1, AKT1, the TSC1-TSC2 complex and the GTPase RHEB. 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

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).
Malagelada C.,et al.J. Neurosci. 28:14363-14371(2008).

Images



Host: Rabbit
Target Name: Ddit4
Sample Tissue: Rat Thymus lysates
Antibody Dilution: 1.0µg/ml

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