

Product datasheet for **TA306539**

DDIT4 Rabbit Polyclonal Antibody

Product data:

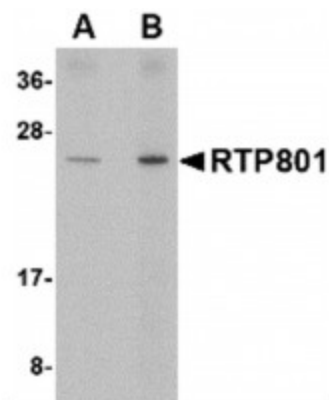
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 5 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	RTP801 antibody was raised against a 12 amino acid synthetic peptide from near the center of human RTP801. The immunogen is located within amino acids 90 - 140 of RTP801.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DNA damage inducible transcript 4
Database Link:	NP_061931 Entrez Gene 74747 Mouse Entrez Gene 140942 Rat Entrez Gene 54541 Human Q9NX09
Background:	RTP801 was initially identified as a gene induced by DNA damage, and later found to also be regulated by other cellular stresses such as hypoxia and glucocorticoid treatment. Recently, RTP801 has been shown to act as a mediator of tuberous sclerosis complex (TSC)-dependent regulation of the mammalian Target of Rapamycin (mTOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle. In response to energy stress, RTP801 inhibits mTOR function, resulting in dephosphorylation of downstream targets such as ribosomal protein S6 kinase 1 and 4EBP1 and decreasing cell growth. Disregulation of RTP801 may thus contribute to human tumorigenesis.
Synonyms:	Dig2; REDD-1; REDD1



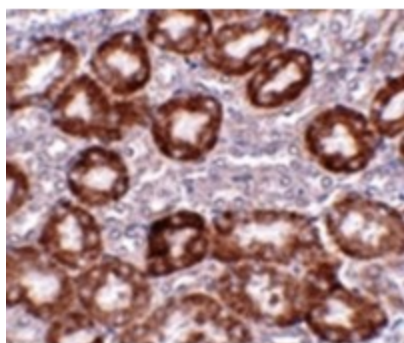
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Protein Pathways: mTOR signaling pathway

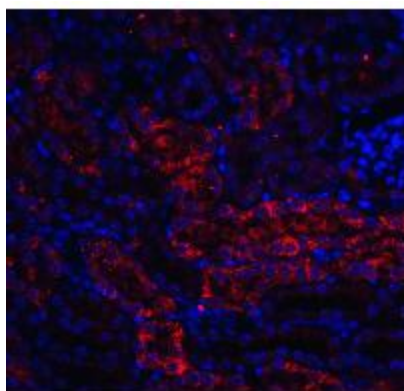
Product images:



Western blot analysis of RTP801 in human kidney tissue lysate with RTP801 antibody at (A) 0.5 and (B) 1ug/ml.



Immunohistochemistry of RTP801 in mouse kidney tissue with RTP801 antibody at 5ug/ml.



Immunofluorescence of RTP801 in mouse kidney tissue with RTP801 antibody at 20ug/ml.