BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-RTP801 DDIT4 Antibody

Catalog Number: A02019

About DDIT4

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.

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Overview

Product Name	Anti-RTP801 DDIT4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RTP801 DDIT4 Antibody (Catalog # A02019). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	RTP801 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	RTP801 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9NX09

Technical Details

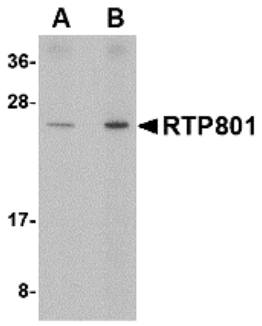
Immunogen	RTP801 antibody was raised against a 12 amino acid synthetic peptide from near the center of human RTP801. The immunogen is located within amino acids 90 - 140 of RTP801.
Predicted Reactive Species	Bovine
Isotype	IgG

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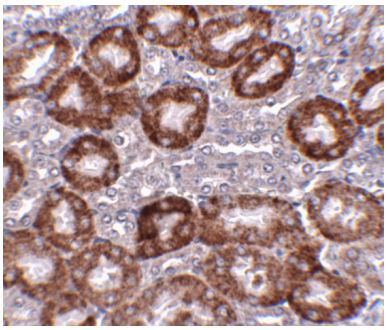
Form	Liquid
Concentration	1 mg/mL
Purification	RTP801 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	RTP801 antibody can be used for the detection of RTP801 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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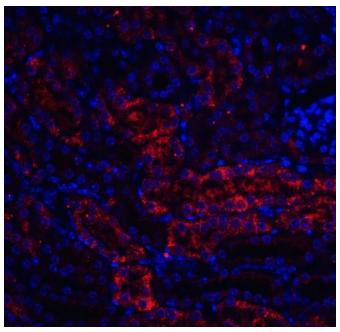
Anti-RTP801 DDIT4 Antibody (A02019) Images



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



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



Immunofluorescence of RTP801 in mouse kidney tissue with RTP801 antibody at 20 ug/mL.Red: RTP801 Antibody (A02019) Blue: DAPI staining

Anti-RTP801 DDIT4 Antibody

For Research Use Only. Not for use in diagnostic procedures.