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BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Phospho-REDD1 (Thr23/25) Antibody

Catalog Number: P02019

About DDIT4

REDD1, Regulated in Development and DNA damage responses 1, is induced by hypoxia, cell stress, and apoptosis. Reduced REDD1 levels can sensitize cells towards apoptosis, where elevated levels of REDD1 induced by hypoxia can desensitize cells to apoptotic stimuli (Schwarzer et al, 2005). REDD1 has a crucial role in inhibiting mammalian rapamycin complex 1 (mTORC1) signaling during hypoxic stress (Katiyar et al, 2009). It has been shown that the rapid degradation of REDD1 is mediated by the CUL4A–DDB1–ROC1–b-TRCP E3 ligase complex and is regulated by REDD1 phosphorylation at Thr-25, Thr-23 and Ser-19 through the activity of GSK3b (Katiyar et al, 2009).

Overview

Product Name	Anti-Phospho-REDD1 (Thr23/25) Antibody
Reactive Species	Human
Description	Boster Bio Anti-Phospho-REDD1 (Thr23/25) Antibody (Catalog # P02019). Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal 608
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q9NX09

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr23/25 of human REDD1, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Primate
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

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Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:500

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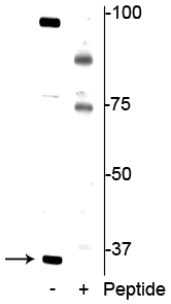
Anti-Phospho-REDD1 (Thr23/25) Antibody (P02019) Images



Western blot of jurkat cell lysate showing specific immunolabeling of the ~34 kDa REDD1 protein phosphorylated at $Thr^{23/25}$ in the first lane (-). Phosphospecificity is shown in the second lane (+) where Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding non-phosphopeptide (not shown).

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