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Datasheet for 600-401-X24

REDD1 Phospho T23/25 Antibody

Overview

Description:	Anti-REDD1 pT23/25 (RABBIT) Antibody - 600-401-X24
Item No.:	600-401-X24
Size:	100 µL
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	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. REDD1 has a crucial role in inhibiting mammalian rapamycin complex 1 (mTORC1) signaling during hypoxic stress. 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. REDD1 pT23/25 Antibody is ideal for researchers interested in cancer research.
Synonyms:	DNA damage-inducible transcript 4 protein, HIF-1 responsive protein RTP801, Protein regulated in development and DNA damage response 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DDIT4
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Phospho-Thr23/25 REDD1 Antibody was produced in rabbits by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding the phospho-Thr23/25 of human REDD1 conjugated to KLH.
Purity/Specificity:	Anti-REDD1 pT23/pT25 Antibody is directed against REDD1 protein phosphorylated at T23 and T25. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Minimal reactivity occurs against non-phosphorylated REDD1. Reactivity against REDD1 occurs from human sources. However, reactivity is also expected against non-human primate based on 100% sequence homology.
Relevant Links:	• UniProtKB - Q9NX09 • GeneID - 54541 • NCBI - NP_061931.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Phospho-Thr23/25 REDD1 Antibody is tested for Western Blots and is specific for the ~34 kDa REDD1 phosphorylated at Thr23/25. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
WB:	1:500

Formulation

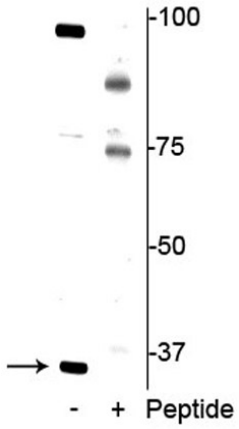
Physical State:	Liquid (sterile filtered)
Concentration:	Titrated value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot of Anti-REDD1 pT23/25 Antibody.
Jurkat cell lysate showing specific immunolabeling of the ~34 kDa REDD1 protein phosphorylated at Thr23/25 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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