

REDD1 Recombinant antibody

Catalog Number: 82650-1-RR

Basic Information

Catalog Number: 82650-1-RR	GenBank Accession Number: BC007714	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 54541	CloneNo.: 1L2
Source: Rabbit	UNIPROT ID: Q9NX09	Recommended Dilutions: WB 1:2000-1:14000
Isotype: IgG	Full Name: DNA-damage-inducible transcript 4	
Immunogen Catalog Number: AG0965	Calculated MW: 25 kDa	
	Observed MW: 32-35 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A549 cells, Cobalt Chloride treated HeLa cells, K-562 cells
Species Specificity: human	

Background Information

REDD1, also named as RTP801 and DDIT4, belongs to the DDIT4 family. REDD1 promotes neuronal cell death. It is a novel transcriptional target of p53 implicated ROS in the p53-dependent DNA damage response. REDD1 controlled cell growth under energy stress, as an essential regulator of TOR activity through the TSC1/2 complex. REDD-1 expression has also been linked to apoptosis, Aβ toxicity and the pathogenesis of ischemic diseases. As an HIF-1-responsive gene, REDD-1 exhibits strong hypoxia-dependent upregulation in ischemic cells of neuronal origin [PMID: 19996311]. In response to stress due to DNA damage and glucocorticoid treatment, REDD-1 is upregulated at the transcriptional level [PMID: 21733849]. REDD-1 negatively regulates the mammalian target of Rapamycin, a serine/threonine kinase often referred to as mTOR [PMID: 22951983]. It is crucial in the coupling of extra- and intracellular cues to mTOR regulation. The absence of REDD-1 is associated with the development of retinopathy, a major cause of blindness [PMID: 22304497]. REDD1 is a new host defense factor, and chemical activation of REDD1 expression represents a potent antiviral intervention strategy [PMID: 21909097]. The calculated molecular weight of REDD1 is 25 kDa. Because of multiple lysines in the proteins, REDD1 often migrates around 35 kDa on Western blot [PMID: 19221489].

Storage

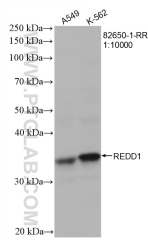
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

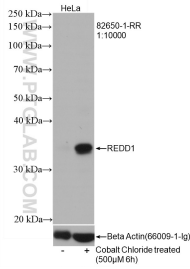
For technical support and original validation data for this product please contact:
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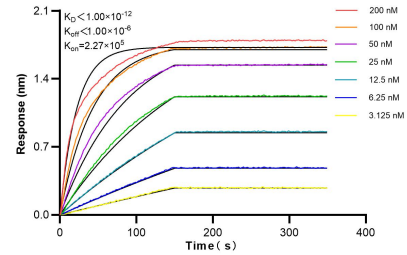
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82650-1-RR (REDD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Cobalt Chloride treated HeLa cells were subjected to SDS PAGE followed by western blot with 82650-1-RR (REDD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82650-1-RR against Human REDD1 were performed. The affinity constant is below 1 pM.