

For Research Use Only

REDD1 Recombinant antibody, PBS Only

Catalog Number: 82650-1-PBS



Basic Information

Catalog Number:	82650-1-PBS	GenBank Accession Number:	BC007714	Purification Method:	Protein A purification
Size:	1mg/ml	GeneID (NCBI):	54541	CloneNo.:	1L2
Source:	Rabbit	UNIPROT ID:	Q9NX09		
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, Indirect ELISA

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, A β 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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

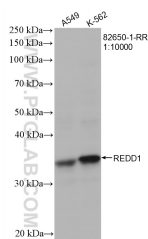
T: 4006900926

E: Proteintech-CN@ptglab.com

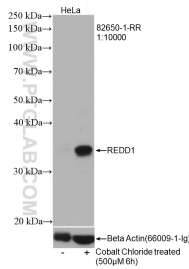
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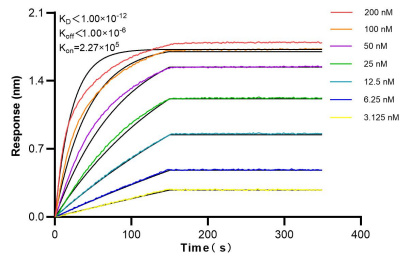
Selected Validation Data



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. This data was developed using the same antibody clone with 82650-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 82650-1-PBS in a different storage buffer formulation.



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