For Research Use Only

CoraLite® Plus 488-conjugated REDD1 specific Polyclonal antibody



Catalog Number: CL488-10638

Featured Product

Basic Information

Catalog Number: CL488-10638 Concentration:

1000 μg/ml Source: Rabbit Isotype:

Immunogen Catalog Number:

AG0965

Observed MW: 32-35 kDa

54541

Q9NX09

25 kDa

Full Name:

Calculated MW:

DNA-damage-inducible transcript 4

UNIPROT ID:

GenBank Accession Number: **Purification Method:**

BC007714 Antigen affinity purification GeneID (NCBI): Recommended Dilutions: FC (Intra): 0.80 ug per 10^6 cells in a

Excitation/Emission maxima

wavelengths: 493 nm / 522 nm

100 ul suspension

Applications

Tested Applications: FC (Intra)

Species Specificity: human, mouse

Positive Controls:

FC (Intra): K-562 cells,

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 TSC 1/2 complex. REDD-1 expression has also been linked to apoptosis, A B toxicity and the pathogenesis of ischemic diseases. As an HIF-1responsive 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 offen migrates around 35 kDa on Western blot[PMID: 19221489]. This antibody is a rabbit polyclonal antibody raised against full length human REDD1 antigen. This antibody is specific to the REDD1 from siRNA experiment (PMID:24713927)

Storage

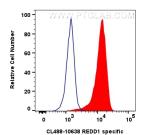
Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1x10^6 K-562 cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Redd1 Specific Polyclonal Antibody (CL488-10638)(red), or 0.8 ug CoraLite® Plus 488-conjugated Rabbit 1gG control Rabbit PolyAb (CL488-3000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).