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REDD1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #Q9NX09	Entrez-Gene Id: 54541
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

REDD1 Antibody detects transfected levels of REDD1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Asn60 of human REDD1. Antibodies are purified by peptide affinity chromatography.

Background

REDD1 (**RE**gulated in **D**evelopment and **D**N.A damage responses) expression is induced by hypoxia, cell stress, apoptosis and DNA damage. REDD1 is a transcriptional target of p53 and p63 following DNA damage, and links p63 to Ros (1). REDD1 functions as a negative regulator of mTOR in response to hypoxia in a tuberlin-dependent manner (2). Depending on cell context, REDD1 can either be protecting or detrimental for cells under oxidative or ischemic stresses (3).

Background References

1. Ellisen, L.W. et al. (2002) *Mol Cell* 10, 995-1005.
2. Brugarolas, J. et al. (2004) *Genes Dev* 18, 2893-904.
3. Shoshani, T. et al. (2002) *Mol Cell Biol* 22, 2283-93.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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