

#2516 Store at -20C

# REDD1 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Transfected Only	28	Rabbit	#Q9NX09	54541

## 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**NA 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

**WB:** Western Blotting

## Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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