

Datasheet for ABIN500644
anti-DDIT4 antibody (N-Term)



[Go to Product page](#)

1 Image

Overview

| | |
|----------------------|---|
| Quantity: | 0.1 mg |
| Target: | DDIT4 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This DDIT4 antibody is un-conjugated |
| Application: | Western Blotting (WB), Enzyme Immunoassay (EIA) |

Product Details

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| Immunogen: | RTP801 antibody was raised against a 14 amino acid peptide from near the amino terminus of human DDIT4. |
| Isotype: | IgG |
| Specificity: | This antibody detects DDIT4 at N-term. |
| Cross-Reactivity (Details): | Species reactivity (tested): Human, mouse, rat |
| Purification: | Peptide affinity chromatography |

Target Details

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| Target: | DDIT4 |
| Alternative Name: | DDIT4 (DDIT4 Products) |

Target Details

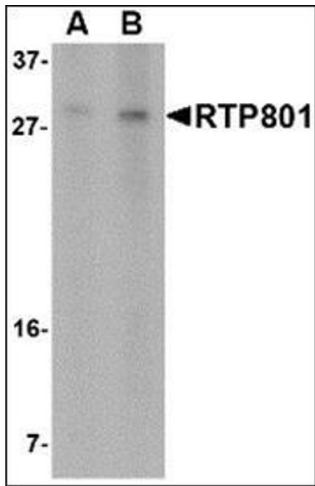
| | |
|-----------------|--|
| Background: | RTP801 was initially identified as a gene induced by DNA damage, and later found to also be regulated by other cellular stresses such as hypoxia and glucocorticoid treatment. Recently, RTP801 has been shown to act as a mediator of tuberous sclerosis complex (TSC)-dependent regulation of the mammalian Target of Rapamycin (mTOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle. In response to energy stress, RTP801 inhibits mTOR function, resulting in dephosphorylation of downstream targets such as ribosomal protein S6 kinase 1 and 4EBP1 and decreasing cell growth. Disregulation of RTP801 may thus contribute to human tumorigenesis.Synonyms: DDIT-4, DNA-damage-inducible transcript 4, Dig2, HIF-1 responsive protein, Protein regulated in development and DNA damage response 1, REDD-1, REDD1, RTP801 |
| Gene ID: | 54541 |
| NCBI Accession: | NP_061931 |
| UniProt: | Q9NX09 |
| Pathways: | Neurotrophin Signaling Pathway , Regulation of Carbohydrate Metabolic Process |

Application Details

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| Application Notes: | ELISA. Western blot: 2 - 4 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Buffer: | PBS containing 0.02 % sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. |



Western Blotting

Image 1. Western blot analysis of RTP801 in 293 cell lysate with this product at (A) 2 and (B) 4 µg/ml.