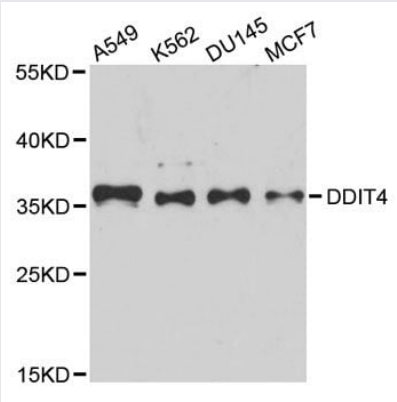
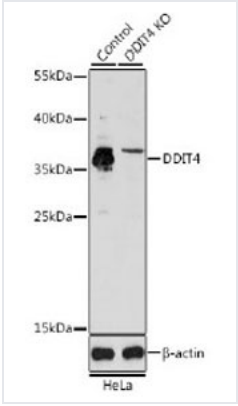
DDIT4 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	DDIT4, Polyclonal Antibody
Full Product Name	DDIT4 Polyclonal Antibody
Product Gene Name	anti-DDIT4 antibody
Product Synonym Names	DDIT4; Dig2; REDD-1; REDD1
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20°C. Avoid freeze / thaw cycles.
Molecular Weight	Observed MW: 35kDa Calculated MW: 25kDa
OMIM	607729
3D Structure	ModBase 3D Structure for Q9NX09
Source	Rabbit
Immunogen	Immunogen Recombinant fusion protein containing a sequence corresponding to amino acids 1-232 of human DDIT4 (NP_061931.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DDIT4 antibody	Western Blot (WB)
Application Notes for anti-DDIT4 antibody	WB 1:500 - 1:2000
Related Product Information for anti-DDIT4 antibody	MBS9128200 is an antibody targeting DDIT4. Also known as DDIT4 Polyclonal Antibody. Reactive in Human.
Other Notes	Small volumes of anti-DDIT4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-DDIT4 antibody
Western blot analysis of extracts of various cell lines, using DDIT4 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.



Western Blot (WB) of anti-DDIT4 antibody
Western blot analysis of extracts from normal (control) and DDIT4 knockout (KO) HeLa cells, using DDIT4 antibody (MBS9128200) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDIT4. It may not necessarily be applicable to this product.

NCBI GI #	9506687
NCBI GeneID	54541
NCBI Accession #	NP_061931.1
UniProt Primary Accession #	Q9NX09
UniProt Secondary Accession #	Q9H0S3
UniProt Related Accession #	Q9NX09
GenBank Nucleotide #	NM_019058.2
NCBI Official Full Name	DNA damage-inducible transcript 4 protein
NCBI Official Synonym Full Names	DNA-damage-inducible transcript 4
NCBI Official Symbol	DDIT4
NCBI Official Synonym Symbols	Dig2; REDD1; REDD-1
UniProt Protein Name	DNA damage-inducible transcript 4 protein
UniProt Synonym Protein Names	HIF-1 responsive protein RTP801; Protein regulated in development and DNA damage response 1; REDD-1
Protein Family	DNA damage-inducible transcript 4 protein
UniProt Gene Name	DDIT4
UniProt Synonym Gene Names	REDD1; RTP801; REDD-1
UniProt Entry Name	DDIT4_HUMAN
NCBI Protein Information	DNA damage-inducible transcript 4 protein

UniProt Comments for DDIT4	DDIT4: Inhibits cell growth by regulating the TOR signaling pathway upstream of the TSC1-TSC2 complex and downstream of AKT1. Promotes neuronal cell death. Up-regulated in fibroblasts upon ionizing radiation, via a TP53-dependent pathway. Up-regulated by TP63 in primary keratinocytes, and down-regulated during keratinocyte differentiation. Up-regulated upon DNA alkylation. Up-regulated by amyloid beta-peptide and retinoic acid. Up-regulated by hypoxia, via a PI3K and HIF1A-dependent but TP53/TP63-independent mechanism. Broadly expressed, with lowest levels in brain, skeletal muscle and intestine. Up-regulated in substantia nigra neurons from Parkinson disease patients. Belongs to the DDIT4 family. Chromosomal Location of Human Ortholog: 10q22.1 Cellular Component: mitochondrion; cytoplasm; intracellular; cytosol Biological Process: neuron differentiation; cell proliferation; negative regulation of TOR signaling pathway; protein complex disassembly; nerve growth factor receptor signaling pathway; negative regulation of peptidyl-serine phosphorylation; neuron migration; response to hypoxia; brain development; negative regulation of glycolysis; defense response to virus; DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis
Research Articles on DDIT4	**1.** REDD1 knockout (KO) mice, all skin compartments, epidermal stem, and progenitor cells were protected from atrophic effects of glucocorticoids.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/ddit4/9128200