Dna Damage Inducible Transcript 3 (DDIT3) ELISA Kit for Fish

PRODUCT OVERVIEW

Product Name	Dna Damage Inducible Transcript 3 (DDIT3), ELISA Kit
Full Product Name	Fish Dna Damage Inducible Transcript 3 ELISA Kit
Product Gene Name	DDIT3 elisa kit
Species Reactivity	Fish
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	19,175 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (57910371..57914300, complement). Location: 12q13.1-q13.2
OMIM	126337
3D Structure	ModBase 3D Structure for P35638
Related Product Information for DDIT3 elisa kit	MBS047103 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dna Damage Inducible Transcript 3 (DDIT3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DDIT3. The ELISA analytical biochemical technique of the MBS047103 kit is based on DDIT3 antibody-DDIT3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DDIT3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DDIT3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of DDIT3 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDIT3. It may not necessarily be applicable to this product.

NCBI GI #	304282234
NCBI GeneID	1649
NCBI Accession #	NP_001181986.1
UniProt Primary Accession #	P35638
UniProt Secondary Accession #	F8VS99
UniProt Related Accession #	P35638
GenBank Nucleotide #	NM_001195057.1
NCBI Official Full Name	DNA damage-inducible transcript 3 protein isoform 2
NCBI Official Synonym Full Names	DNA-damage-inducible transcript 3
NCBI Official Symbol	DDIT3
NCBI Official Synonym Symbols	CHOP; CEBPZ; CHOP10; CHOP-10; GADD153
UniProt Protein Name	DNA damage-inducible transcript 3 protein

UniProt Synonym Protein Names	C/EBP zeta; C/EBP-homologous protein; CHOP; C/EBP-homologous protein 10; CHOP-10; CCAAT/enhancer-binding protein homologous protein; Growth arrest and DNA damage-inducible protein GADD153
Protein Family	DNA damage-inducible transcript 3 protein
UniProt Gene Name	DDIT3
UniProt Synonym Gene Names	CHOP; CHOP10; GADD153; DDIT-3; CHOP; CHOP-10
UniProt Entry Name	DDIT3_HUMAN
NCBI Protein Information	DNA damage-inducible transcript 3 protein; DDIT-3; C/EBP zeta; c/EBP-homologous protein 10; CCAAT/enhancer-binding protein homologous protein; growth arrest and DNA damage-inducible protein GADD153
NCBI Summary for DDIT3	This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified. [provided by RefSeq, Aug 2010]
UniProt Comments for DDIT3	CHOP: a transcriptional-regulatory protein of the bZIP family. Inhibits the DNA-binding activity of C/EBP and LAP by forming heterodimers that cannot bind DNA. May play an important role in melanoma progression. CK2-mediated phosphorylation inhibits its transcriptional activity. Up-regulates IL-6 transcription by trapping negative regulating NF-IL6 isoform. Protein type: Transcription factor; DNA-binding; Autophagy; Oncoprotein Chromosomal Location of Human Ortholog: 12q13.1-q13.2 Cellular Component: nucleoplasm; late endosome; nucleus; cytosol Molecular Function: leucine zipper domain binding; protein binding; DNA binding; protein heterodimerization activity; transcription factor binding; transcription factor activity; transcription corepressor activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; positive regulation of interleukin-8 production; regulation of transcription, DNA-dependent; positive regulation of neuron apoptosis; cell cycle arrest; ER overload response; regulation of transcription in response to stress; negative regulation of protein kinase B signaling cascade; Wnt receptor signaling pathway; unfolded protein response; negative regulation of transcription factor activity; blood vessel maturation; mRNA transcription from RNA polymerase II promoter; response to unfolded protein; response to starvation; unfolded protein response, activation of signaling protein activity; cellular protein metabolic process; cell redox homeostasis; release of sequestered calcium ion into cytosol; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; negative regulation of myoblast differentiation; inhibition of CREB transcription factor; response to DNA damage stimulus Disease: Myxoid Liposarcoma
Research Articles on DDIT3	**1.** GADD153 regulates Bak expression by its binding to promoter region (between -3,398 and -3,380).
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.
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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.

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