ZBP1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ZBP1, Recombinant Protein
Full Product Name	Recombinant Human ZBP1
Product Gene Name	ZBP1 recombinant protein
Product Synonym Names	Z-DNA-Binding Protein 1; Tumor Stroma and Activated Macrophage Protein DLM; ZBP1; C20orf183; DLM1
Sequence	Met1-Ser14 9
Host	E coli
Form/Format	Lyophilized from a 0.2um filtered solution of PBS, pH7.4
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	46,343 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (56178902..56195632, complement). Location: 20q13.31
OMIM	606750
3D Structure	ModBase 3D Structure for Q9H171
Species	Human
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal His Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for ZBP1 recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for ZBP1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for ZBP1 recombinant protein	MBS7622172 is a recombinant protein targeting ZBP1. Also known as Recombinant Human ZBP1. Host: E coli.
Other Notes	Small volumes of ZBP1 recombinant protein 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 ZBP1. It may not necessarily be applicable to this product.

NCBI GI #	238550212
NCBI GeneID	81030

NCBI Accession #	NP_001153891.1
UniProt Primary Accession #	Q9H171
UniProt Secondary Accession #	Q5JY39; Q9BYW4; A2A2F7; B3KVA1; F5GYT1
UniProt Related Accession #	Q9H171
GenBank Nucleotide #	NM_001160419.2
NCBI Official Full Name	Z-DNA-binding protein 1 isoform d
NCBI Official Synonym Full Names	Z-DNA binding protein 1
NCBI Official Symbol	ZBP1
NCBI Official Synonym Symbols	DAI; DLM1; DLM-1; C20orf183
UniProt Protein Name	Z-DNA-binding protein 1
UniProt Synonym Protein Names	Tumor stroma and activated macrophage protein DLM-1
Protein Family	Z-DNA-binding protein
UniProt Gene Name	ZBP1
UniProt Synonym Gene Names	C20orf183; DLM1
UniProt Entry Name	ZBP1_HUMAN
NCBI Protein Information	Z-DNA-binding protein 1; DNA-dependent activator of IRFs; DNA-dependent activator of IFN-regulatory factors; tumor stroma and activated macrophage protein DLM-1; DNA-dependent activator of interferon regulatory factors
NCBI Summary for ZBP1	This gene encodes a Z-DNA binding protein. The encoded protein plays a role in the innate immune response by binding to foreign DNA and inducing type-I interferon production. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for ZBP1	ZBP1: Participates in the detection by the host's innate immune system of DNA from viral, bacterial or even host origin. Plays a role in host defense against tumors and pathogens. Acts as a cytoplasmic DNA sensor which, when activated, induces the recruitment of TBK1 and IRF3 to its C-terminal region and activates the downstream interferon regulatory factor (IRF) and NF-kappa B transcription factors, leading to type-I interferon production. ZBP1-induced NF-kappaB activation probably involves the recruitment of the RHIM containing kinases RIPK1 and RIPK3. 5 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 20q13.31 Cellular Component: cytoplasm; nucleus; cytosol Molecular Function: double-stranded RNA adenosine deaminase activity; protein binding; DNA binding; left-handed Z-DNA binding; RNA binding Biological Process: metabolic process; positive regulation of interferon type I production; innate immune response
Research Articles on ZBP1	**1.** DAI could function as a DNA sensor and a regulator in DNA-induced macrophage M2b polarization and lupus nephritis.
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