Heat Shock 70kDa Binding Protein 1 (HSPBP1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Heat Shock 70kDa Binding Protein 1 (HSPBP1), ELISA Kit
Full Product Name	Mouse Heat Shock 70kDa Binding Protein 1 ELISA Kit
Product Gene Name	HSPBP1 elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	39,474 Da
OMIM	612939
3D Structure	ModBase 3D Structure for Q9NZL4
Related Product Information for HSPBP1 elisa kit	MBS097055 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Heat Shock 70kDa Binding Protein 1 (HSPBP1) 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 HSPBP1. The ELISA analytical biochemical technique of the MBS097055 kit is based on HSPBP1 antibody-HSPBP1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect HSPBP1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, HSPBP1. 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 HSPBP1 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 HSPBP1. It may not necessarily be applicable to this product.

NCBI GI #	12803139
NCBI GeneID	23640
NCBI Accession #	AAH02373.1
UniProt Primary Accession #	Q9NZL4
UniProt Secondary Accession #	O95351; Q6ZNU5; B3KQP0; B4DG11
UniProt Related Accession #	Q9NZL4
NCBI Official Full Name	HSPA (heat shock 70kDa) binding protein, cytoplasmic cochaperone 1
NCBI Official Synonym Full Names	HSPA (heat shock 70kDa) binding protein, cytoplasmic cochaperone 1
NCBI Official Symbol	HSPBP1
NCBI Official Synonym Symbols	FES1
UniProt Protein Name	Hsp70-binding protein 1
UniProt Synonym Protein Names	Heat shock protein-binding protein 1; Hsp70-binding protein 2; HspBP2; Hsp70-interacting protein 1; Hsp70-interacting protein 2
Protein Family	Hsp70-binding protein

UniProt Gene Name	HSPBP1
UniProt Synonym Gene Names	HSPBP; HspBP1; HspBP2
UniProt Entry Name	HPBP1_HUMAN
NCBI Protein Information	hsp70-binding protein 1; hsp70 interacting protein; heat shock protein-binding protein 1
UniProt Comments for HSPBP1	HSPBP1: Inhibits HSPA1A chaperone activity by changing the conformation of the ATP-binding domain of HSPA1A and interfering with ATP binding. Interferes with ubiquitination mediated by STUB1 and inhibits chaperone-assisted degradation of immature CFTR. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 19q13.42 Molecular Function: enzyme inhibitor activity; protein binding Biological Process: protein folding; positive regulation of protein ubiquitination; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; negative regulation of catalytic activity
Research Articles on HSPBP1	**1.** shown that HspBP1 binds Tag7 in the conditioned medium of tumor CSML0 cells, thereby preventing formation of the cytotoxic Tag7-Hsp70 complex
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