

Recombinant Human HSBP1 Protein, GST-tagged

Cat. No. HSBP1-5058H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HSBP1 full-length ORF (AAH07515, 1 a.a. - 76 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The heat-shock response is elicited by exposure of cells to thermal and chemical stress and through the activation of HSFs (heat shock factors) results in the elevated expression of heat-shock induced genes. Heat shock factor binding protein 1 (HSBP1), is a 76-amino-acid protein that binds to heat shock factor 1(HSF1), which is a transcription factor involved in the HS response. During HS response, HSF1 undergoes conformational transition from an inert non-DNA-binding monomer to active functional trimers. HSBP1 is nuclear-localized and interacts with the active trimeric state of HSF1 to negatively regulate HSF1 DNA-binding activity. Overexpression of HSBP1 in mammalian cells represses the transactivation activity of HSF1. When overexpressed in C.elegans HSBP1 has severe effects on survival of the animals after thermal and chemical stress consistent with a role of HSBP1 as a negative regulator of heat shock response. [provided by RefSeq]
Molecular Mass	34.1 kDa
AA Sequence	MAETDPKTVQDLTSVVQTLLQQMQDKFQTMSDQIIGRIDDMSSRIDDLKNIADLMT QAGVEELESENKIPATQKS

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HSBP1 heat shock factor binding protein 1 [Homo sapiens]
Official Symbol	HSBP1
Synonyms	HSBP1; heat shock factor binding protein 1; heat shock factor-binding protein 1; nasopharyngeal carcinoma-associated antigen 13; NPC-A-13; DKFZp686D1664; DKFZp686O24200;
Gene ID	3281
mRNA Refseq	NM_001537
Protein Refseq	NP_001528
MIM	604553
UniProt ID	O75506

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