

HSBP1, human recombinant protein
NPC-A-13, HSBP1, Heat shock factor-binding protein 1, Nasopharyngeal carcinoma-associated antigen 13
Catalog # PBV10477r

Specification

HSBP1, human recombinant protein - Product info

Primary Accession [O75506](#)

HSBP1, human recombinant protein - Additional Info

Gene ID	3281
Gene Symbol	HSBP1
Other Names	
NPC-A-13, HSBP1, Heat shock factor-binding protein 1, Nasopharyngeal carcinoma-associated antigen 13, HSF1BP, DKFZp686D1664, DKFZp686O24200	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Format	
Liquid	

Storage

4.0 °C; Liquid in 20 mM Tris-HCl, pH 7.5, containing 20% glycerol, 50 mM NaCl, 1 mM DTT.

HSBP1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HSBP1, human recombinant protein - Images

HSBP1, human recombinant protein - Background

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.

HSBP1, human recombinant protein - References

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Shu J.,et al.Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).
Liu X.,et al.Proteins 75:1-11(2009).