



Mouse anti-Human HSBP1 monoclonal antibody, clone 3D4 (CABT-B10431)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	HSBP1 (AAH07515, 1 a.a. ~ 77 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	3D4
Conjugate	Unconjugated
Applications	WB, ELISA
Sequence Similarities	MAETDPKTVQDLTSVVQTLQQMQDKFQTMSDQIIGRIDDMSRIDDLEKNIADLMTQAG VEELESENKIPATQKS*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	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-
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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, Jul 2008]

Keywords	HSBP1; heat shock factor binding protein 1; NPC-A-13; heat shock factor-binding protein 1; nasopharyngeal carcinoma-associated antigen 13;
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GENE INFORMATION

Entrez Gene ID	3281
UniProt ID	O75506
Function	transcription corepressor activity
