

Datasheet for ABIN2776380
anti-HSBP1 antibody (N-Term)[Go to Product page](#)

1 Image

1 Publication

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | HSBP1 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse, Rat, Cow, Pig, Dog, Horse, Rabbit, Zebrafish (Danio rerio), Guinea Pig |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This HSBP1 antibody is un-conjugated |
| Application: | Western Blotting (WB) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | The immunogen is a synthetic peptide directed towards the N terminal region of human HSBP1 |
| Sequence: | AETDPKTVQD LTSVVQTLLQ QMQDKFQTMS DQIIGRIDDM SSRIDDLEKN |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 79%, Pig: 100%, Rabbit: 100%, Rat: 93%, Zebrafish: 86% |
| Characteristics: | This is a rabbit polyclonal antibody against HSBP1. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Affinity Purified |

Target Details

| | |
|---------|-------|
| Target: | HSBP1 |
|---------|-------|

Target Details

Alternative Name: HSBP1 ([HSBP1 Products](#))

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. 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.

Alias Symbols: DKFZp686D1664, DKFZp686O24200, NPC-A-13

Protein Interaction Partner: NOTCH2NL, KRTAP10-3, KRTAP10-7, LNX1, KIAA1217, CCHCR1, CCDC53, SDCBP, KIFC3, HSBP1, UBC, VCP, RRBP1, RB1CC1, HSF1, HSPA1A, HSPA4,

Protein Size: 76

Molecular Weight: 8 kDa

Gene ID: 3281

NCBI Accession: [NM_001537](#), [NP_001528](#)

UniProt: [O75506](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

| | |
|--------------------|--|
| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 76 AA |
| Restrictions: | For Research Use only |

Handling

| | |
|--------------------|---|
| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Publications

| | |
|-------------------|--|
| Product cited in: | Braun, Sponder, Pieper, Aschenbach, Deiner: "GABA selectively increases mucin-1 expression in isolated pig jejunum." in: Genes & nutrition , Vol. 10, Issue 6, pp. 47, (2015) (PubMed). |
|-------------------|--|



Western Blotting

Image 1. WB Suggested Anti-HSBP1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human brain