

## Anti-HSP70/HSPA1B Antibody

Catalog Number: A30415

### About HSPA1B

1. What is Hsp70/HSP1A? HSP1A is a member of the Hsp70 (heat shock protein 70) proteins that act as molecular chaperones ensuring correct protein folding and preventing protein aggregation. Hsp70 protein production is greatly induced by various stress stimuli, including high temperature and toxins. Its expression is often elevated in various cancers. 2. FAQs for Hsp70 a. I cannot detect Hsp70 by western blotting HSP70s are typically expressed at low levels under normal physiological conditions but are dramatically up-regulated in response to cellular stress. Try to always include cell lysate from cells subjected to stress conditions as a positive control. a. What loading control can I use for cellular stress experiments with Hsp70? Choosing a loading control antibody is an important step in western blotting experimental setup. We highly recommend using more than one loading control while developing new cellular stress assays to ensure that a given treatment does not alter expression of house-keeping genes. Hsp70 has a molecular size of 70 kDa, so we recommend using GAPDH (36 kDa), actin (42 kDa), or tubulin (50-55 kDa). More information on our control antibodies can be found here: <https://www.ptglab.com/news/blog/loading-control-antibodies-for-western-blotting/>.

### Overview

Product Name	Anti-HSP70/HSPA1B Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-HSP70/HSPA1B Antibody catalog # A30415. Tested in WB, IHC, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P0DMV9

### Technical Details

Immunogen	E.coli-derived human HSP70/HSPA1B recombinant protein (Position: Y294-E638).
Form	Liquid
Concentration	500 ug/ml

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 ImmunoPrecipitation, 1:250-300 ELISA, 1:100-1000

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