

# Product Datasheet

## HSP60 Antibody (LK2) NBP2-32867-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-32867-0.1mg**

HSP60 Antibody (LK2)

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	LK2
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Target Molecular Weight</b>	60 kDa
<b>Product Description</b>	
<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0 mg/ml. (NBP2-34671)  Antibody with azide - store at 2 to 8C.
<b>Host</b>	Mouse
<b>Gene ID</b>	3329
<b>Gene Symbol</b>	HSPD1
<b>Species</b>	Human, Mouse, Rat, Bacteria, S. pyogenes, Chicken, E. coli, Guinea Pig, Hamster, Invertebrate, Parasite, Plant, Monkey, Yeast
<b>Reactivity Notes</b>	Borellia, Streptococcus pyogenes, Yersinia enterocolitica, Salmonella typhimurium, Treponema hyodysenteriae, Treponema innocense, Trichinella spiralis, Helminths, and Spinach.
<b>Marker</b>	Mitochondrial Marker
<b>Specificity/Sensitivity</b>	Recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60). Its epitope is localized between aa 383-419 of human HSP60. A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (hsp s), more appropriately called as stress response proteins (srp s). HSP60 is a potential antigen in a number of autoimmune diseases. In human arthritis and in experimentally induced arthritis in animals, disease development coincides with the development of immune reactivity directed against not only bacterial HSP60, but also against its mammalian homolog.
<b>Immunogen</b>	Recombinant human HSP60 protein (Uniprot: P10809 )
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Western Blot (Negative)
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Simple Western 1:10, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Western Blot (Negative)

**Application Notes**

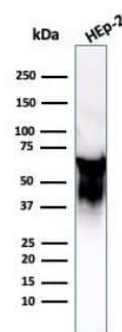
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size.

**Images**

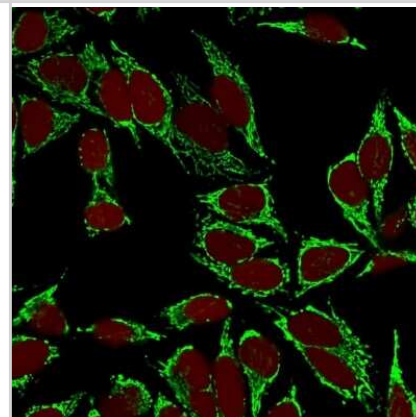
Simple Western: HSP60 Antibody (LK2) [NBP2-32867] - Simple Western lane view shows a specific band for HSP60 in 0.2 mg/ml of HeLa (left) and HepG2 (right) lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



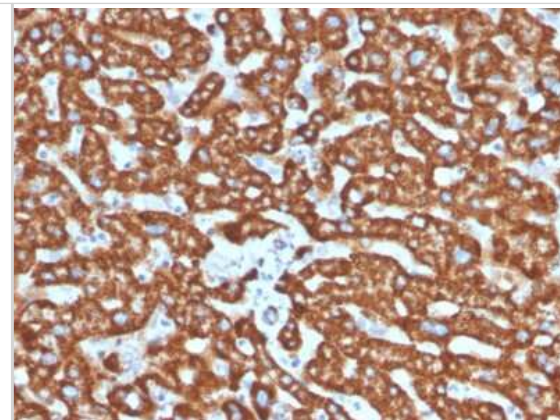
Western Blot: HSP60 Antibody (LK2) [NBP2-32867] - Western blot analysis of Hep2 cell lysate using HSP60 Mouse Monoclonal Antibody (LK2).



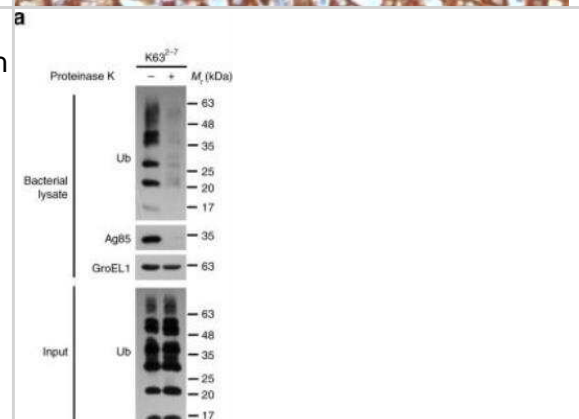
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (LK2) [NBP2-32867] - Immunofluorescent staining of MEOH-fixed HeLa cells using followed by goat anti-Mouse labeled with CF488 (Green); Nuclei are labeled with NucSpot red).



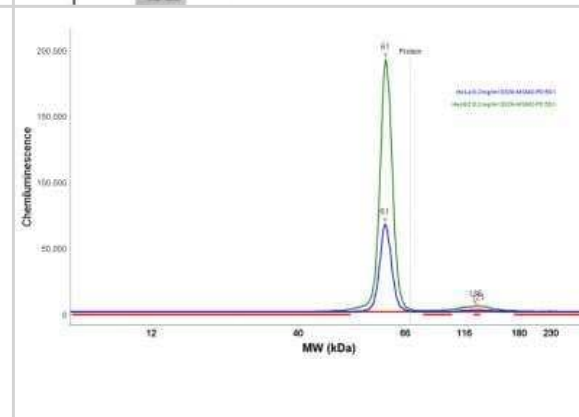
Immunohistochemistry-Paraffin: HSP60 Antibody (LK2) [NBP2-32867] - Formalin-fixed, paraffin-embedded human liver in colon stained with HSP60 Mouse Monoclonal Antibody (LK2).



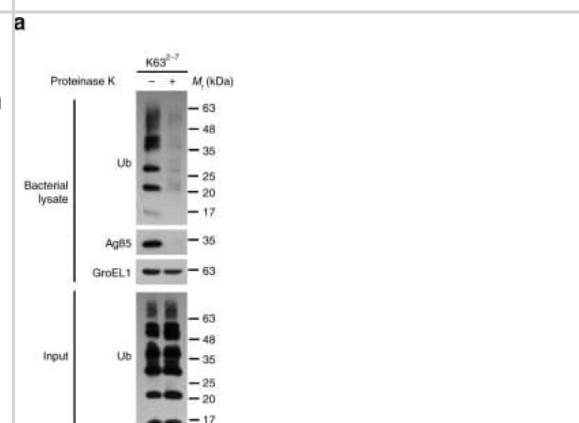
Western Blot (Negative): HSP60 Antibody (LK2) [NBP2-32867] - Immunoblot analysis of whole bacterial lysate of Mtb cells pretreated with (+) or without (-) proteinase K followed by incubation with K632-7 poly-Ub chains at 4C for 4 hr. Image collected and cropped by CiteAb from the following publication ([www.nature.com/articles/s41467-019-09955-8](http://www.nature.com/articles/s41467-019-09955-8)) licensed under a CC-BY license.



Simple Western: HSP60 Antibody (LK2) [NBP2-32867] - Electropherogram image of the corresponding Simple Western lane. HSP60 antibody was used at 10 ug/ml dilution of HeLa and HepG2 lysates(s) respectively.



Mtb Rv1468c directly binds to poly-Ub chains in a UBA-dependent manner. a, b) Immunoblot analysis of whole bacterial lysate of Mtb cells pretreated with (+) or without (-) proteinase K followed by incubation with K632-7 (a) or K482-7 (b) poly-Ub chains at 4 C for 4 h. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31036822>), licensed under a CC-BY licence.



## Publications

Chai Q, Wang X, et al. A Mycobacterium tuberculosis surface protein recruits ubiquitin to trigger host xenophagy. Nat Commun 2019-04-29 [PMID: 31036822] (WB, Human, Mouse)

Perez-Gonzalez A, Kniewel R, Veldhuizen M et al. Adaptation of the GoldenBraid modular cloning system and creation of a toolkit for the expression of heterologous proteins in yeast mitochondria. BMC Biotechnol. 2017-11-13 [PMID: 29132331] (WB, Yeast)

**Details:**

This citation used the Azide and BSA Free form of this antibody

Buren S, Young EM, Sweeny EA et al. Formation of Nitrogenase NifDK Tetramers in the Mitochondria of Saccharomyces cerevisiae ACS Synth Biol 2017-06-16 [PMID: 28221768] (WB)

**Details:**

This reference used the HRP version of NBP2-32867.





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### Products Related to NBP2-32867-0.1mg

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-77396PEP	HSP60 Antibody Blocking Peptide

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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