

Product Datasheet

HSP60 Antibody (LK1) NBP2-32973-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-32973-0.1mg

HSP60 Antibody (LK1)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	LK1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	60 kDa

Product Description	
Description	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. (NBP2-34670) Antibody with azide - store at 2 to 8C.
Host	Mouse
Gene ID	3329
Gene Symbol	HSPD1
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Drosophila, Hamster, Monkey, Rabbit, Sheep, Xenopus
Reactivity Notes	Does not react with Bacteria, helminths or spinach.
Marker	Mitochondrial Marker
Specificity/Sensitivity	Recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60). Its epitope is localized between aa 383-447 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.
Immunogen	Recombinant human HSP60 protein (Uniprot: P10809)

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.25-0.5 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml

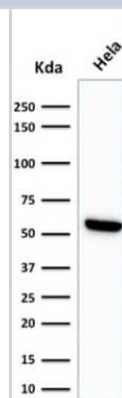


Application Notes

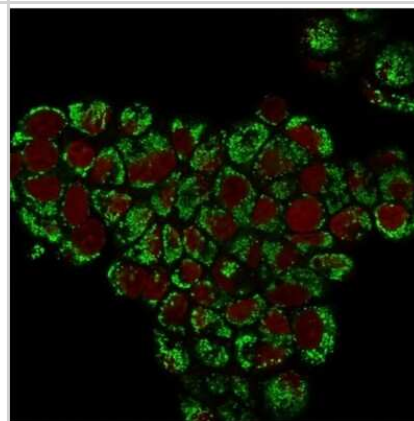
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. See [Simple Western Antibody Database](#) for Simple Western validation: Tested in HeLa and HepG2 lysates, separated by Size, antibody dilution of 10 ug/mL, apparent MW was 61 kDa

Images

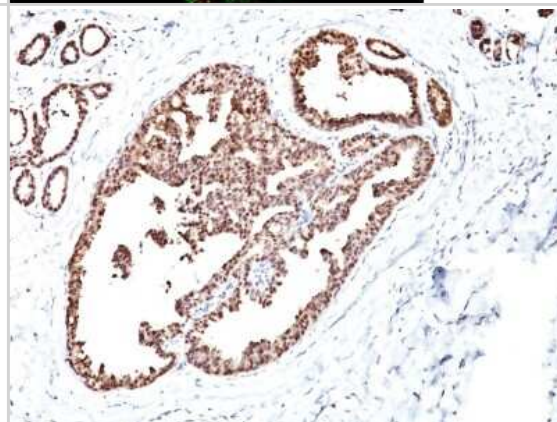
Western Blot: HSP60 Antibody (LK1) [NBP2-32973] - Western Blot Analysis of HeLa cell lysate using HSP60 Antibody (LK1)



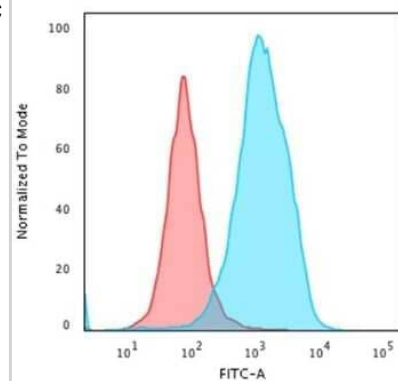
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (LK1) [NBP2-32973] - Immunofluorescent staining of PFA-fixed MCF-7 cells. followed by goat anti-Mouse IgG-CF488 (green). Nuclei are labeled with Red Dot (red).



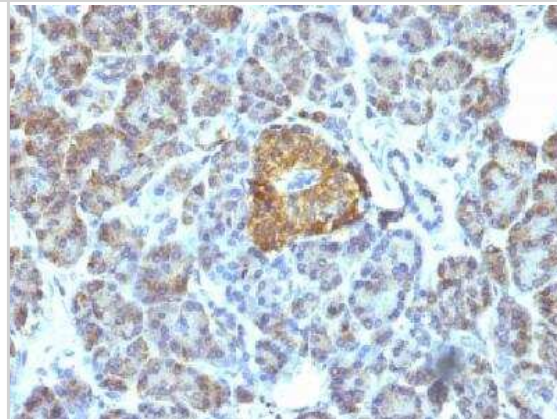
Immunohistochemistry-Paraffin: HSP60 Antibody (LK1) [NBP2-32973] - Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP60 MAb (LK1)



Flow Cytometry: HSP60 Antibody (LK1) [NBP2-32973] - Flow Cytometric Analysis of paraformaldehyde-fixed HeLa cells using HSP60 antibody (LK1) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



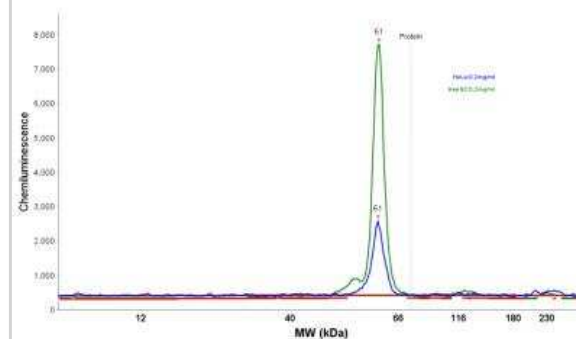
Immunohistochemistry-Paraffin: HSP60 Antibody (LK1) [NBP2-32973] - Formalin-fixed paraffin-embedded human pancreas stained with HSP60 Monoclonal Antibody (LK1).



Simple Western: HSP60 Antibody (LK1) [NBP2-32973] - 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.



Simple Western: HSP60 Antibody (LK1) [NBP2-32973] - Electropherogram image of the corresponding Simple Western lane. HSP60 antibody was used at 10 ug/ml dilution of HeLa and HepG2 lysates(s) respectively.



Publications

Adur MK, Seibert JT, Romoser MR et al. Porcine endometrial heat shock proteins are differentially influenced by pregnancy status, heat stress, and altrenogest supplementation during the peri-implantation period *Journal of animal science* 2022-07-01 [PMID: 35772767] (Western Blot, Porcine)

Jalali BM, Bogacki M, Dietrich M et al. Proteomic analysis of porcine endometrial tissue during peri-implantation period reveals altered protein abundance. *J Proteomics*. 2015-05-12 [PMID: 25976747] (WB, Porcine)





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Products Related to NBP2-32973-0.1mg

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

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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