

Product Datasheet

HSPA8/HSC71/Hsc70 Antibody (1F2-H5) - BSA Free NBP2-12880-200ug

Unit Size: 200 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-12880-200ug

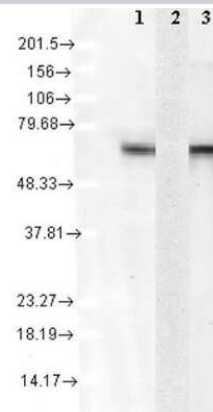
HSPA8/HSC71/Hsc70 Antibody (1F2-H5) - BSA Free

Product Information	
Unit Size	200 ug
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1F2-H5
Preservative	0.09% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse HSPA8/HSC71/Hsc70 Antibody (1F2-H5) - BSA Free (NBP2-12880) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF, Simple Western and IP. Anti-HSPA8/HSC71/Hsc70 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3312
Gene Symbol	HSPA8
Species	Human, Mouse, Rat
Specificity/Sensitivity	Detects approx 73kDa. Does not cross react with HSP70.
Immunogen	Full length human HSC70
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Microarray, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1:1000, Simple Western, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation, Proximity Ligation Assay, Microarray
Application Notes	1 ug/ml of HSC70 (HSP73) Antibody was sufficient for detection of HSC70 in 10 ug of HeLa lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody. See Simple Western Antibody Database for Simple Western validation: separated by charge, antibody dilution of 1:200.

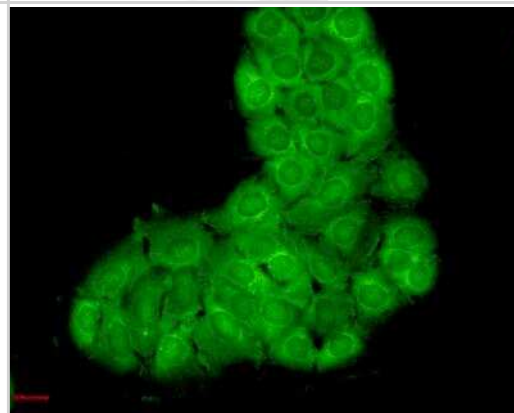


Images

Western Blot: HSPA8/HSC71/Hsc70 Antibody (1F2-H5) [NBP2-12880] - Western Blot analysis of Human Cell lysates showing detection of HSPA8/HSC71/Hsc70 protein using Mouse Anti-HSPA8/HSC71/Hsc70 Monoclonal Antibody, Clone 1F2-H5 (NBP2-12880). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HSPA8/HSC71/Hsc70 Monoclonal Antibody (NBP2-12880) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT. 1: mix of 10 different human cell lines, 2: Hsp72 recombinant protein, and 3: Hsc70(Hsp73) recombinant protein.



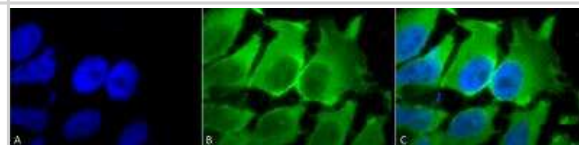
Immunocytochemistry/Immunofluorescence: HSPA8/HSC71/Hsc70 Antibody (1F2-H5) [NBP2-12880] - Analysis using Mouse Anti-Hsc70 Monoclonal Antibody, Clone 1F2-H5. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20 degrees C. Primary Antibody: Mouse Anti-Hsc70 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Bright cytoplasmic staining, duller nuclear staining.



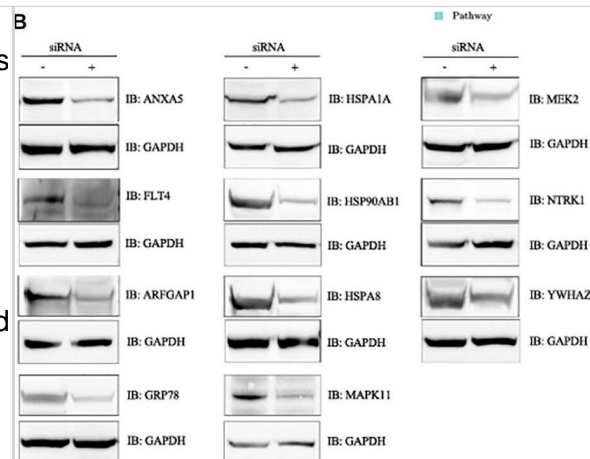
Immunocytochemistry/Immunofluorescence: HSPA8/HSC71/Hsc70 Antibody (1F2-H5) [NBP2-12880] - Analysis using Mouse Anti-Hsc70 (Hsp73) Monoclonal Antibody, Clone 1F2-H5. Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsc70 (Hsp73) Monoclonal Antibody at 1:100 for 12 hours at 4 degrees C. Secondary Antibody: R-PE Goat Anti-Mouse (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Localizes to nucleus upon heat shock. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsc70 (Hsp73) Antibody. (C) Composite.



Immunocytochemistry/Immunofluorescence: HSPA8/HSC71/Hsc70 Antibody (1F2-H5) [NBP2-12880] - Analysis using Mouse Anti-Hsc70 (Hsp73) Monoclonal Antibody, Clone 1F2-H5. Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsc70 (Hsp73) Monoclonal Antibody at 1:100 for 12 hours at 4 degrees C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Localizes to nucleus upon heat shock. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsc70 (Hsp73) Antibody. (C) Composite.



RNAi screening of host factors related to EBOV-trVLP life cycle and further validation and analysis. (A) RNAi silencing analysis of host factors required for the EBOV trVLP life cycle. A 100 μ l sample of opti-MEM medium containing 1.4 μ l siRNA and 4.5 μ l HiPerFect was placed in 24-well plates, and a cell suspension (400 μ l) containing 1×10^5 cells was added to give a final siRNA concentration of 75 nM. After incubation for 48 h, cells were infected with trVLPs for another 48 h, total RNA was extracted, and the absolute quantity of EBOV RNA was measured using a EBOV nucleic acid test kit. All qRT-PCR experiments were performed in triplicate and repeated three times independently. Cells not transfected with siRNA but infected with trVLPs served as a blank control; cells transfected with isotype siRNA and infected with trVLPs served as a negative control. Eleven siRNAs targeting HSPA1A, HSP90AB1, ARFGAP1, ANXA5, YWHAZ, MAPK11, NTRK1, FLT4, GRP78, MEK2, and HSPA8 inhibited trVLP replication effectively. \square $p < 0.05$, $\square\square$ $p < 0.01$. (B) Western blot analysis of each target protein after siRNA transfection. The 11 target proteins were all expressed at much lower levels following transfection with the relevant siRNA. Normal 293T cells and cells transfected with isotype siRNAs served as controls. (C) Characterization of selected networks of candidate host proteins that may be important for regulating the trVLP life cycle. Interactions of the 11 host proteins were assessed using the GeneMANIA interaction database, and their functions were evaluated in association with cytoplasmic vesicle membranes, mitochondrial membranes, mitochondria, antigen binding, the COP9 signalosome, and phospholipid binding. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/30483236>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

YU D, Yao S, Xi W et al. HSC70, HSPA1A, and HSP90AB1 Facilitate Ebola Virus trVLPs to Induce Chaperone-Mediated Autophagy Research Square 2023-08-18

Yu D, Yao S, Xi W et al. HSC70, HSPA1A, and HSP90AB1 Facilitate Ebola Virus trVLPs to Induce Autophagy bioRxiv 2020-06-22 (KD, WB, Human)

Yu DS, Weng TH, Hu CY et al. Chaperones, Membrane Trafficking and Signal Transduction Proteins Regulate Zaire Ebola Virus trVLPs and Interact With trVLP Elements. Front Microbiol. 2018-11-12 [PMID: 30483236] (WB, Human)



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Products Related to NBP2-12880-200ug

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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