

# Product Datasheet

## HSP70/HSPA1A [ac Lys77] Antibody - BSA Free NBP2-61122

Unit Size: 100 ul

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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**NBP2-61122**

HSP70/HSPA1A [ac Lys77] Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	0.5 mg/ml
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS (pH 7.4), 50% Glycerol

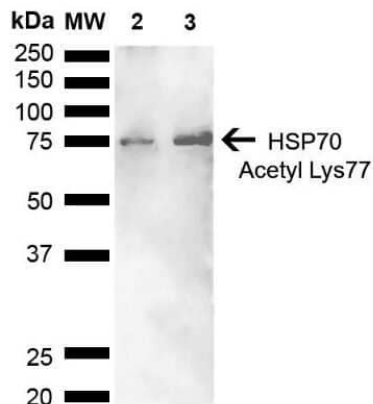
Product Description	
Host	Rabbit
Gene ID	3303
Gene Symbol	HSPA1A
Species	Human, Mouse, Rat
Specificity/Sensitivity	Binds to acetylated lysine 77 on HSP70. Detects 70 kDa band.
Immunogen	Synthetic peptide from the N-terminal of Human HSP70 Acetyl Lys77 (1-100 aa), conjugated to Keyhole Limpet Haemocyanin (KLH).

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen (Negative)
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence 1:60, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen (Negative) 1:50
Application Notes	A 1:1000 dilution of this antibody was sufficient for detection of HSP70 Acetyl Lys77 in 10 ug of human HeLa cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.

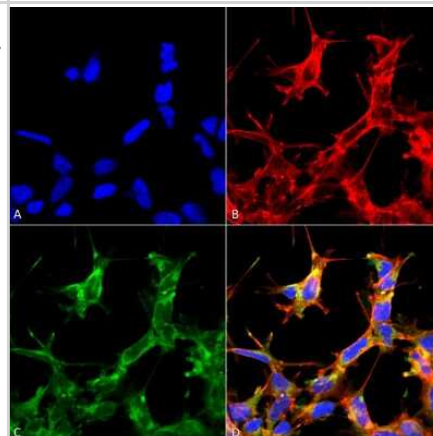


## Images

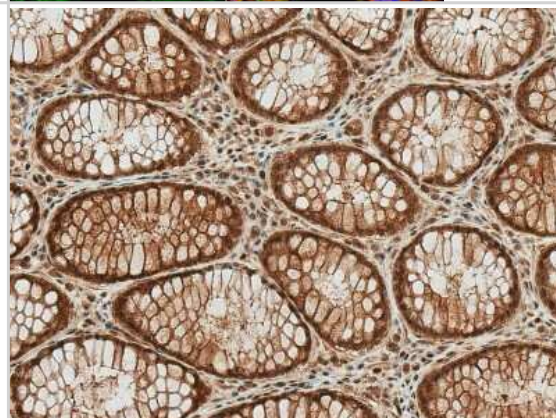
**Western Blot: HSP70/HSPA1A [ac Lys77] Antibody [NBP2-61122]** - Western blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of ~70 kDa HSP70/HSPA1A protein using Rabbit Anti-HSP70/HSPA1A Polyclonal Antibody (NBP2-61122). Lane 1: Molecular Weight Ladder (MW). Lane 2: Cervical Cancer cell line (HeLa) lysate. Lane 3: H2O2 Cervical Cancer cell line (HeLa) lysate. Load: 10 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-HSP70/HSPA1A Polyclonal Antibody (NBP2-61122) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit HRP:IgG at 1:3000 for 1 hour at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~70 kDa.



**Immunocytochemistry/Immunofluorescence: HSP70/HSPA1A [ac Lys77] Antibody [NBP2-61122]** - analysis using Rabbit Anti-HSP70 Acetyl Lys77 Polyclonal Antibody. Tissue: Embryonic kidney cells (HEK293) cultured overnight with 50 uM H2O2. Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Rabbit Anti-HSP70 Acetyl Lys77 Polyclonal Antibody at 1:60 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:1500 for 30-60 min at RT. Counterstain: Phalloidin Alexa Fluor 633 F-Actin stain; DAPI (blue) nuclear stain at 1:250, 1:50000 for 30-60 min at RT. Localization: Cytoplasmic. Magnification: 20X (2X Zoom). (A) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C) HSP70 Antibody (Acetyl Lys77). (D) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



**Immunohistochemistry-Paraffin: HSP70/HSPA1A [ac Lys77] Antibody [NBP2-61122]** - Tissue: Colon Cancer. Species: Human. Primary Antibody: Rabbit Anti-HSP70 (Acetyl Lys77) Polyclonal Antibody (NBP2-61122) at 1:50 for 30 min at RT. Counterstain: Hematoxylin. Magnification: 20X. HRP-DAB Detection.





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### **Products Related to NBP2-61122**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-77456PEP	HSP70/HSPA1A 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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