

# Product Datasheet

## HSP60 Antibody (2E1/53)

### NB120-5479

Unit Size: 100ug

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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#### Publications: 1

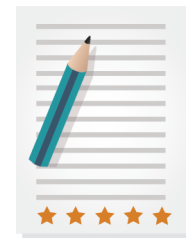
Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
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Updated 10/23/2024 v.20.1

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**NB120-5479**

HSP60 Antibody (2E1/53)

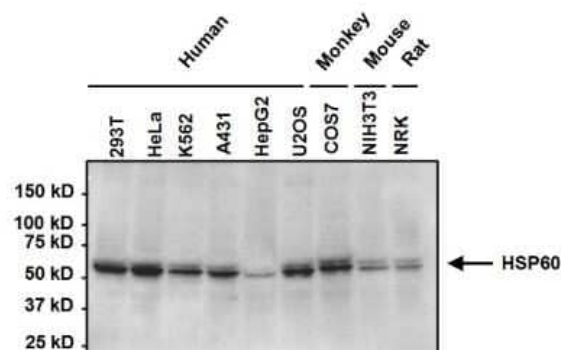
Product Information	
Unit Size	100ug
Concentration	LYOPH mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2E1/53
Preservative	0.05% Sodium Azide
Reconstitution Instructions	Reconstitute with PBS.
Isotype	IgM
Purity	Immunogen affinity purified
Buffer	PBS with 1 mg/ml BSA

Product Description	
Host	Mouse
Gene ID	3329
Gene Symbol	HSPD1
Species	Human, Mouse
Reactivity Notes	Cross-reactivity with Mouse, Rat and Monkey.
Marker	Mitochondria Marker
Specificity/Sensitivity	Detects Hsp 60 from human cells, tissues and recombinant protein preparations. This displays no other protein or species cross-reactivity.
Immunogen	Human placental HSP60.

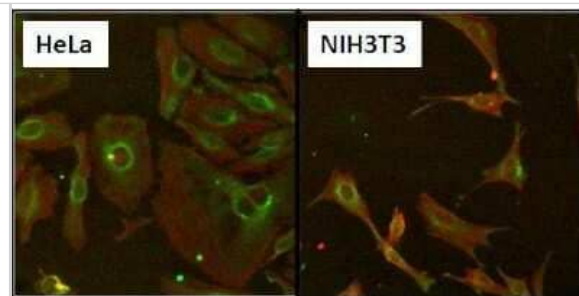
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1 - 10 ug/ml, ELISA 1 - 10 ug/ml, Immunohistochemistry 1 - 10 ug/ml, Immunocytochemistry/ Immunofluorescence 1:20 - 1:200, Immunoprecipitation 2 ug, Immunohistochemistry-Paraffin 1 - 10 ug/ml
Application Notes	WB: Detects an approx. 58 kDa protein.

**Images**

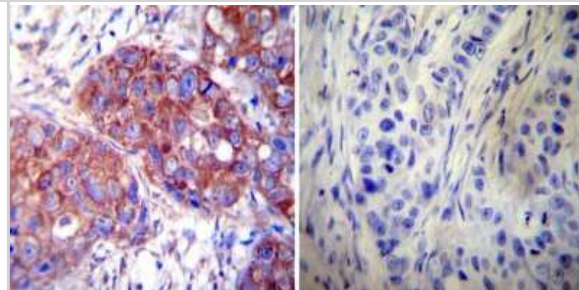
Western Blot: HSP60 Antibody (2E1/53) [NB120-5479] - Analysis of Heat Shock Protein 60 (HSP 60) was performed by loading 50ug of the indicated whole cell lysates onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a HSP60 monoclonal antibody at a concentration of 1ug/ml overnight at 4C on a rocking platform, washed in TBS-0.1%Tween 20, and probed with a goat anti-mouse IgM secondary antibody at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Pico.



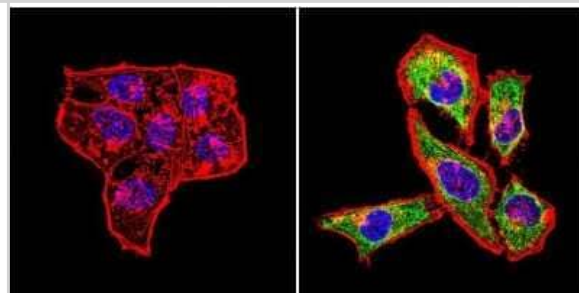
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Analysis of Heat Shock Protein 60 (HSP60) (green) in HeLa and NIH3T3 cells.



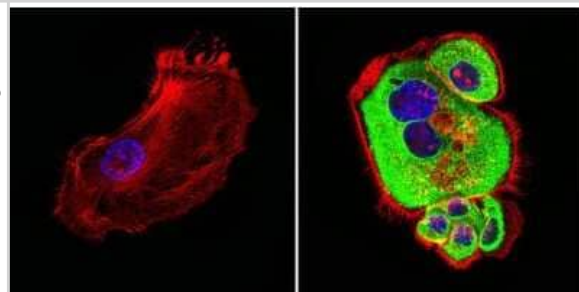
Immunohistochemistry-Paraffin: HSP60 Antibody (2E1/53) [NB120-5479] - Both normal and cancer biopsies of deparaffinized Human breast carcinoma tissues.



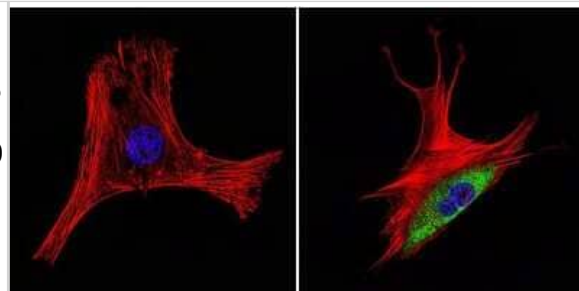
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Analysis of HeLa Cells at a dilution of 1:200



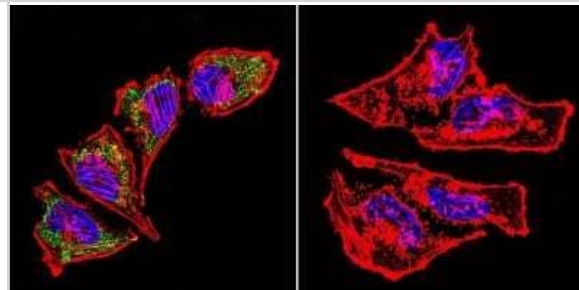
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Heat Shock Protein 60 monoclonal antibody (2E1/53) at a dilution of 1:100 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI.



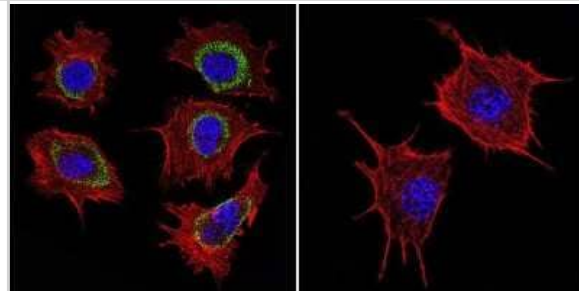
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Heat Shock Protein 60 monoclonal antibody (2E1/53) at a dilution of 1:20 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI.



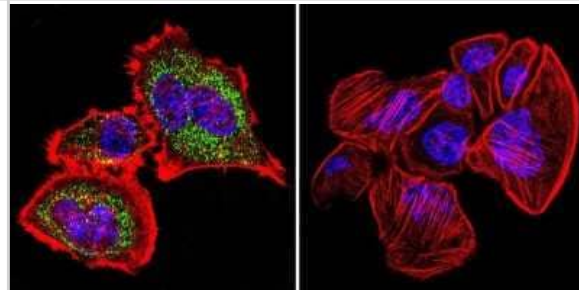
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Heat Shock Protein 60 (Hsp60) monoclonal antibody at a dilution of 1:100 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



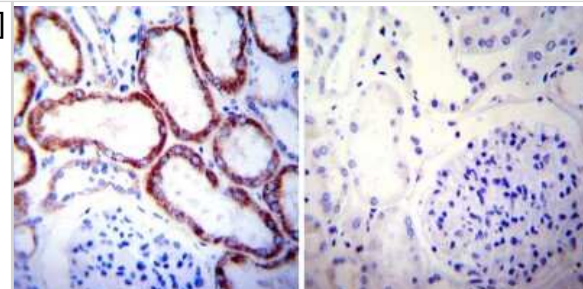
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Heat Shock Protein 60 (Hsp60) monoclonal antibody at a dilution of 1:100 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



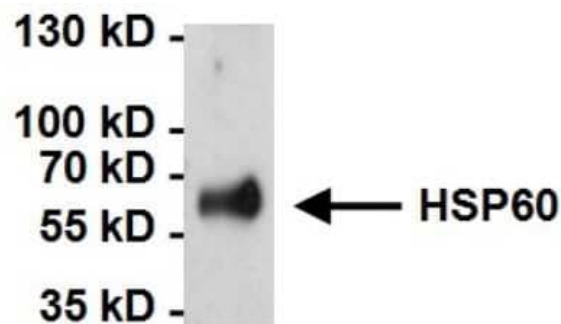
Immunocytochemistry/Immunofluorescence: HSP60 Antibody (2E1/53) [NB120-5479] - Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Heat Shock Protein 60 (Hsp60) monoclonal antibody at a dilution of 1:200 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



Immunohistochemistry-Paraffin: HSP60 Antibody (2E1/53) [NB120-5479]  
- Both normal and cancer biopsies of deparaffinized Human kidney tissue tissues.



Immunoprecipitation: HSP60 Antibody (2E1/53) [NB120-5479] - Analysis of Heat Shock Protein 60 (HSP60) was performed on HeLa cells. Antigen-antibody complexes were formed by incubating 500ug of whole cell lysate with 2ug of a HSP60 monoclonal antibody overnight on a rocking platform at 4C. The immune complexes were captured on 50ul Protein A/G Plus Agarose, washed extensively, and eluted with 5X Lane Marker Reducing Sample Buffer. Samples were resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membrane, and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a HSP60 monoclonal antibody at a concentration of 1ug/ml overnight rotating at 4C, washed in TBST, and probed with a goat anti-mouse IgM secondary antibody at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection performed using SuperSignal West Dura.



## Publications

Halbert D, Domenyuk V, Spetzler D et al. Aptamers and uses thereof United States Patent Application US 9958448 B2 2018-01-01



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NBL1-11766	HSP60 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-62224	Mouse IgM Isotype Control (PFR-03)

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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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