

# Product Datasheet

## 53BP1 Antibody (1285C) - Azide and BSA Free NBP2-80550

Unit Size: 0.1 mg

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

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Updated 2/9/2023 v.20.1

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**NBP2-80550**

53BP1 Antibody (1285C) - Azide and BSA Free

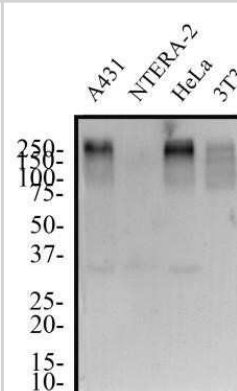
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1285C
Preservative	No Preservative
Isotype	IgG
Purity	Protein A or G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	7158
Gene Symbol	TP53BP1
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gibbon (100%), Gorilla (100%), Marmoset (100%)
Immunogen	53BP1 Antibody (1285C) was made to a synthetic peptide made to the C-terminal portion of human 53BP1 protein (between amino acids 1900-1972) [UniProt Q12888]

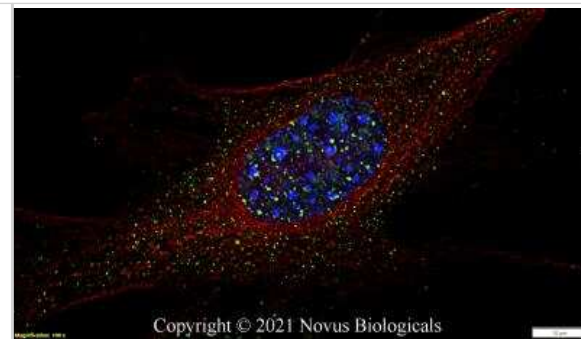
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 1.0 ug/ml, Flow Cytometry 2.5-5 ug/ml, Immunohistochemistry 1.0 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1.0 ug/ml, Flow (Intracellular) 1 ug/ml, CyTOF-ready

**Images**

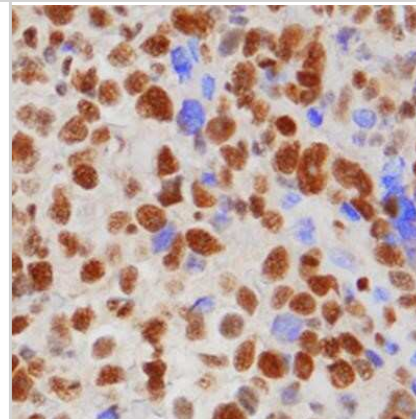
Western Blot: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - Total protein from human A431, NTERA-2, HeLa and mouse 3T3 cell lines was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml 53BP1 Antibody in block solution and detected with an anti-rabbit HRP secondary antibody using chemiluminescence. The observed molecular weight is shown on this gel at ~250 kDa and the theoretical molecular weight of the whole endogenous protein is 214 kDa. Image from the standard format of this antibody.



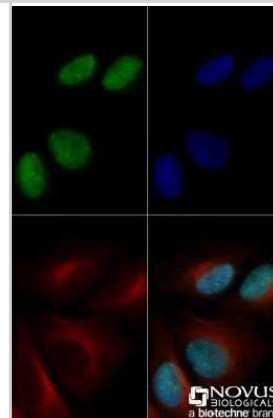
Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-53BP1 Antibody [1285C] NBP2-80550 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:1000 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



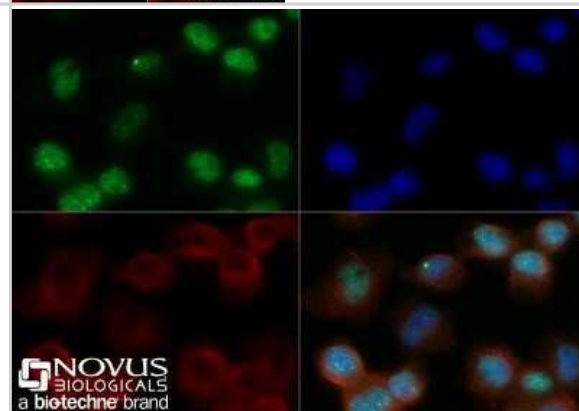
Immunohistochemistry-Paraffin: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - 53BP1 was detected in paraffin-embedded sections of human cervical cancer tissue using Rabbit Anti-Human 53BP1 Monoclonal Antibody (clone 1285C) at 1 ug/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte(TM) HRP PoI



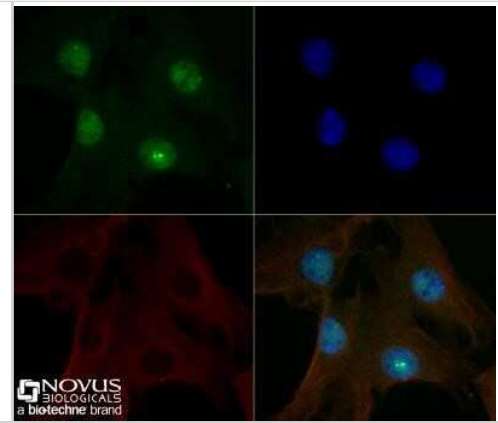
Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 53BP1 Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) (Catalog #NB100-690) was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



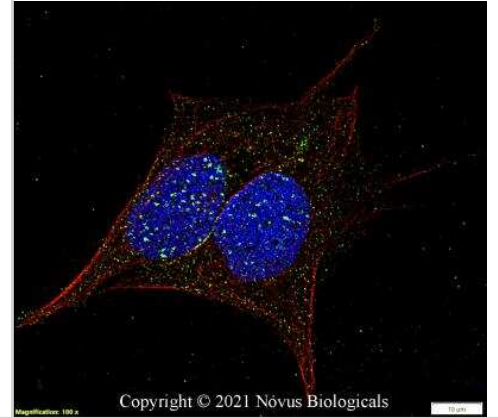
Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - Neuro2a cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 53BP1 Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) (Catalog #NB100-690) was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - NIH-3T3 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 53BP1 Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) (Catalog #NB100-690) was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) - Azide and BSA Free [NBP2-80550] - Ntera2 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-53BP1 Antibody [1285C] NBP2-80550 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:1000 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.





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### **Products Related to NBP2-80550**

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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
H00007158-Q01-10ug	Recombinant Human 53BP1 GST (N-Term) Protein

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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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