Product Datasheet

53BP1 Antibody (1285C) - BSA Free
NBP2-54753

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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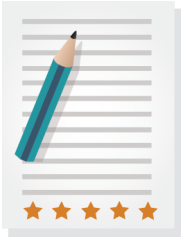
Updated 10/23/2024 v.20.1



NBP2-54753

53BP1 Antibody (1285C) - BSA Free

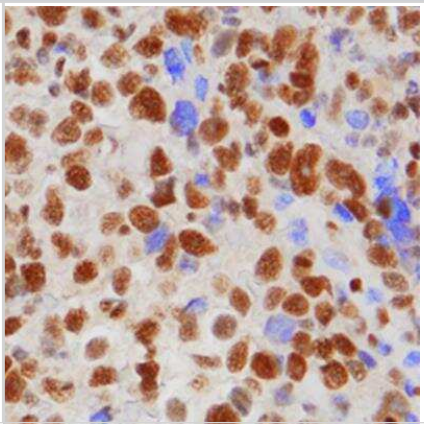
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1285C
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	7158
Gene Symbol	TP53BP1
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Bovine (100%), Canine (100%), Chimpanzee (100%), Equine (100%), Feline (100%), Gibbon (100%), Gorilla (100%), Hamster (100%), Marmoset (100%), Orangutan (100%), Panda (100%), Porcine (100%), Rabbit (100%), Sheep (100%), Bat (99%), Elephant (99%), Rat (99%)
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]

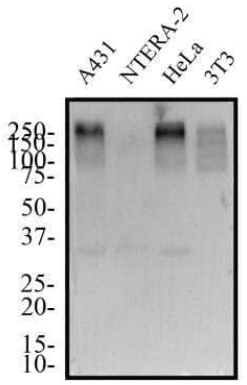
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1.0 ug/ml, Flow Cytometry 2.5-5 ug/ml, Immunohistochemistry 1.0 ug/ml, Immunocytochemistry/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

Images

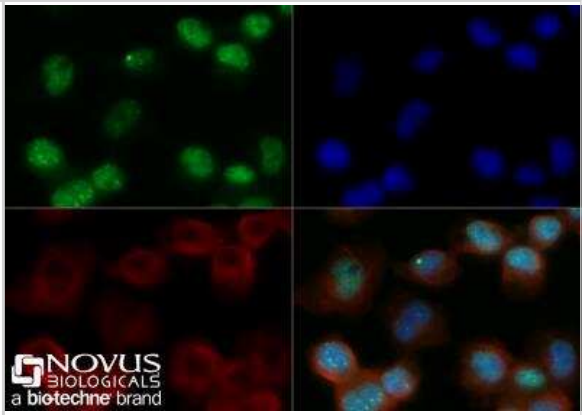
Immunohistochemistry-Paraffin: 53BP1 Antibody (1285C) [NBP2-54753] - 53BP1 was detected in paraffin-embedded sections of human cervical cancer tissue using Rabbit Anti-Human 53BP1 Monoclonal Antibody (clone 1285C) at 1 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei.



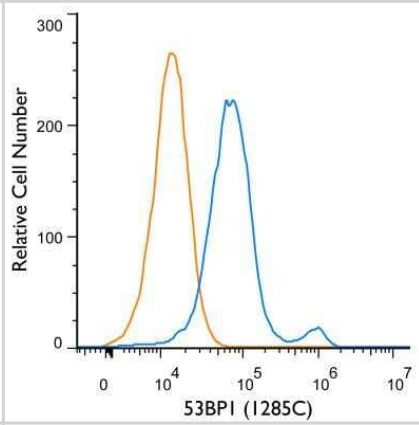
Western Blot: 53BP1 Antibody (1285C) [NBP2-54753] - Total protein from human A431, NTERA-2, HeLa and mouse 3T3 cell lines was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml 53BP1 Antibody in block solution 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.



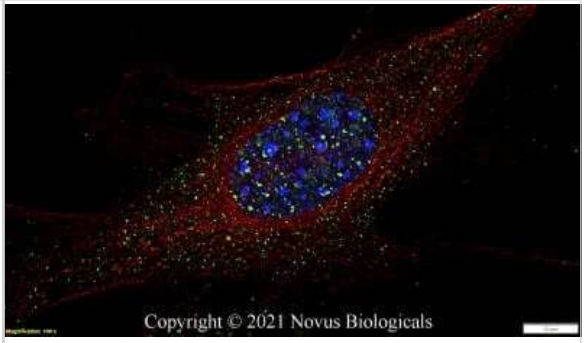
Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) [NBP2-54753] - Neuro2a cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 53BP1 Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit 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.



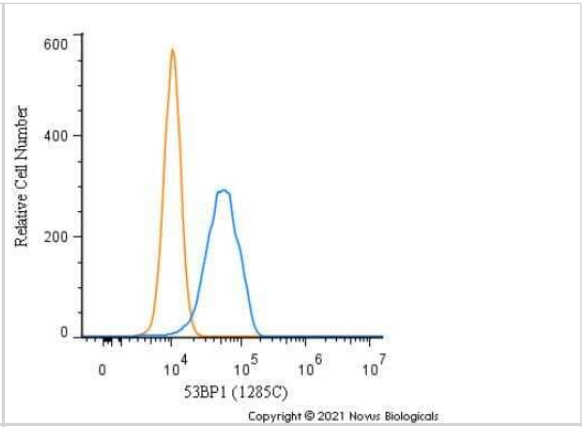
Flow (Intracellular): 53BP1 Antibody (1285C) [NBP2-54753] - An intracellular stain was performed on HeLa Cells with 53BP1 (1285C) antibody (Catalog #NBP2-54753) (blue) and a matched isotype control MAB1050 (orange). Cells were fixed with 4% paraformaldehyde, following fixation, cells were permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by rabbit IgG APC-conjugated secondary antibody (F0111, R&D Systems).



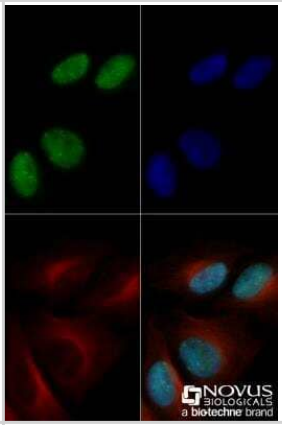
Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) [NBP2-54753] - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-53BP1 Antibody [1285C] NBP2-54753 at 2 ug/ml overnight at 4C and 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.



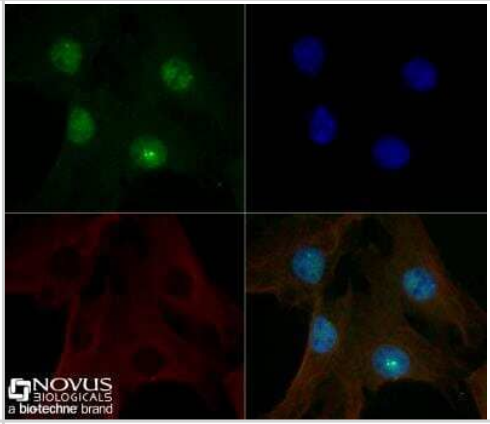
Flow Cytometry: 53BP1 Antibody (1285C) [NBP2-54753] - An intracellular stain was performed on Ntera2 cells with 53BP1 Antibody [1285C] NBP2-54753 (blue) and a matched isotype control NBP2-24891 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (SA5-10033, Thermo Fisher).



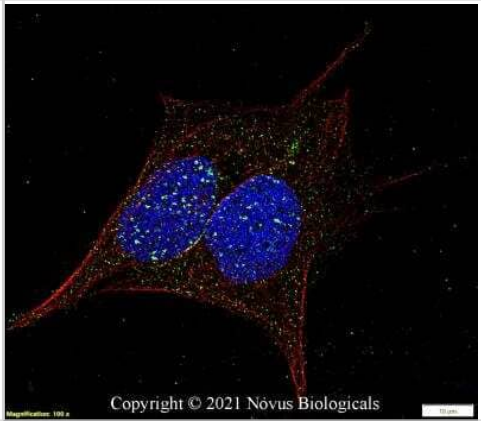
Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) [NBP2-54753] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 53BP1 Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit 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.

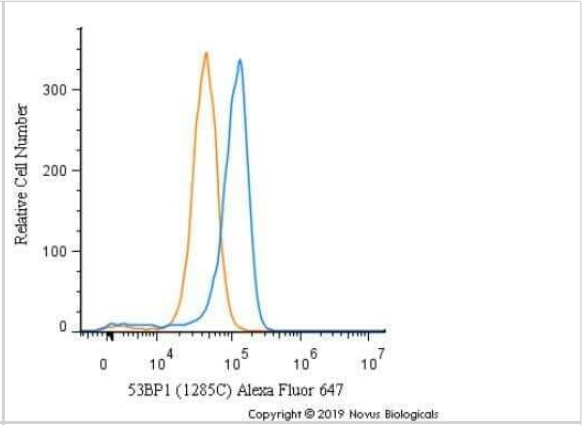


Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) [NBP2-54753] - NIH-3T3 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 53BP1 Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit 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.



Immunocytochemistry/Immunofluorescence: 53BP1 Antibody (1285C) [NBP2-54753] - 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] NBP2-54753 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.



Flow (Intracellular): 53BP1 Antibody (1285C) [NBP2-54753] - An intracellular stain was performed on HeLa cells with 53BP1 [1285C] Antibody (Catalog #NBP2-54753AF647) (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647. Image using the Alexa Fluor 647 format of this antibody.	
53BP1 (1285C) was detected in immersion fixed U-2 OS human osteosarcoma cell line using Rabbit anti-53BP1 (1285C) Protein G Purified Recombinant Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP2-54753AF488) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.	

Publications

Martínez-Zamudio RI, Stefa A, Nabuco Leva Ferreira Freitas JA et al. Escape from oncogene-induced senescence is controlled by POU2F2 and memorized by chromatin scars Cell genomics 2023-04-12 [PMID: 37082139] (ICC/IF, Human)

Sharma A, Alswillah T, Singh K et al. USP14 regulates DNA damage repair by targeting RNF168-dependent ubiquitination Autophagy. 2018-09-19 [PMID: 29995557] (ICC/IF, Human)

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Products Related to NBP2-54753

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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