

Product Datasheet

53BP1 Antibody [DyLight 650] NB100-305C

Unit Size: 0.1 ml

Store at 4C in the dark.

www.novusbio.com



technical@novusbio.com

Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-305C

Updated 10/23/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-305C



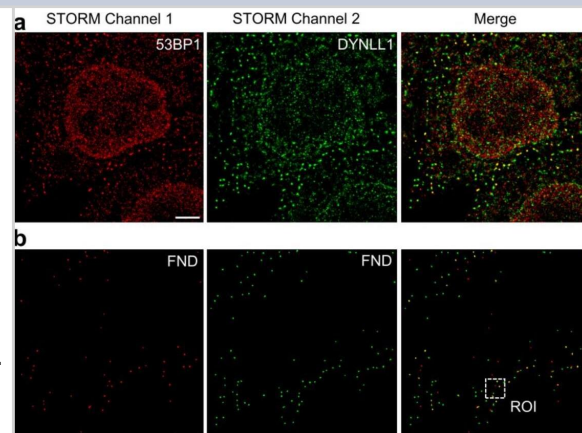
NB100-305C

53BP1 Antibody [DyLight 650]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Conjugate	DyLight 650
Purity	Immunogen affinity purified
Buffer	50mM Sodium Borate
Product Description	
Host	Rabbit
Gene ID	7158
Gene Symbol	TP53BP1
Species	Human, Mouse, Rat, Bat, Bovine, Canine, Naked mole-rat
Reactivity Notes	Use in Naked mole-rat reported in scientific literature (PMID: 33608273). Human has been tested in both WB and ICC/IF, mouse has only been tested in ICC/IF. Feedback on bovine has been negative. Rat reactivity reported in scientific literature (PMID: 24244353). Bat, canine, and bovine reactivity reported in scientific literature (PMID: 27573809). Predicted cross-reactivity based on sequence identity: Chimpazee (100%), Equine (100%), Feline (100%), Gibbon (100%), Gorilla (100%), Hamster (100%), Marmoset (100%), Orangutan (100%), Panda (100%), Porcine (100%), Rabbit (100%), Sheep (100%).
Marker	DNA Double Strand Break Marker
Immunogen	The epitope recognized by 53BP1 Antibody maps to a region between residues 1925 and the C-terminus (residue 1972) of human 53BP1 (NP_005648.1).
Notes	DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Images

Immunocytochemistry/ Immunofluorescence: 53BP1 Antibody [DyLight 650] [NB100-305C] - Dual-color dSTORM acquisition workflow with fluorescence nanodiamonds (FNDs). (a) Representative dSTORM images of MCF10A cells upon targeting of 53BP1 (red) & DYNLL1 (green), stained with AlexaFluor647 & CF568, respectively. Shown are (from left to right) the single-color 53BP1 & DYNLL1 images & the dual-color dSTORM image. (b) FNDs spots positions obtained from red & green STORM channels. (c) Zoomed region of the highlighted area (white dashed box) in (b). Upper panel the localization events (each colored pixel represents one localized single-molecule event) recorded during the acquisition. Representative FNDs are indicated by the arrows. In the lower panel, the recorded events were transformed into Gaussian PSFs of fixed width & segmented (see Materials & Methods & Supplementary Protocol for details) to highlight the drift correction (Scale bar ROI: 1 μm) (d) Representative images of dual-color dSTORM acquisition. The fluorophore blinking in timelapse imaging (15,000 frames) for each channel (53BP1-AlexaFluor647 & DYNLL1-CF568) is shown. The bright spots in the image correspond to the fluorescence emission of individual fluorophores. Most of the fluorescent labels are switched off such that the fluorescent molecules are well separated. FNDs show no blinking properties, indicating high photostability in both channels. (e,f) Comparison of the photon emission from fluorescent nanodiamonds (FND, 40 nm; black), Alexa Fluor 647 dye (red) & CF568 dye (green) over 2000 acquired frames using 561 nm & 647 nm laser excitations, measured in the highlighted regions (white dashed box). (g) Fluorescence decrease of the 40 nm FNDs (black) & the AlexaFluor647 (red), over 15,000 frames of image. Scale bar: 3 μm . Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35215014>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Pelicci S, Furia L, Scanarini M et al. Novel Tools to Measure Single Molecules Colocalization in Fluorescence Nanoscopy by Image Cross Correlation Spectroscopy Nanomaterials (Basel, Switzerland) 2022-02-18 [PMID: 35215014]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-305C

NBP2-24891C	Rabbit IgG Isotype Control [DyLight 650]
NB100-305R	53BP1 Antibody [DyLight 550]
H00007158-Q01-10ug	Recombinant Human 53BP1 GST (N-Term) Protein
NB100-926-1Pack	53BP1 Antibody Pack

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-305C

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

