

Product Datasheet

SLX4 Antibody - BSA Free NBP1-28680

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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NBP1-28680

SLX4 Antibody - 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	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

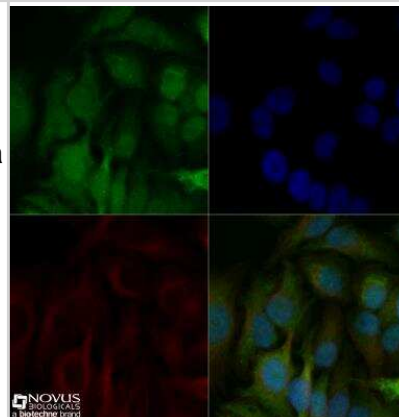
Product Description	
Description	Novus Biologicals Rabbit SLX4 Antibody - BSA Free (NBP1-28680) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, IP and ChIP. Anti-SLX4 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	84464
Gene Symbol	SLX4
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1784 to 1834 of human SLX4 using the numbering given in entry NP_115820.2 (GeneID 84464).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot reported in scientific literature (PMID 24012755), Chromatin Immunoprecipitation reported in scientific literature (PMID 24012755), Immunohistochemistry 1:250 - 1:500, Immunocytochemistry/ Immunofluorescence 5 - 10 ug/ml. Use reported in scientific literature (PMID 24012755), Immunoprecipitation 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:250 - 1:500, Chromatin Immunoprecipitation (ChIP)
Application Notes	Antibody has not performed satisfactorily when used for WB of BTBD12 in crude preparations (e.g. whole cell lysate). This antibody can be used for WB of enriched (e.g. immunoprecipitated) sources of BTBD12. For IHC: Epitope retrieval with citrate buffer pH 6.0 is recommended.

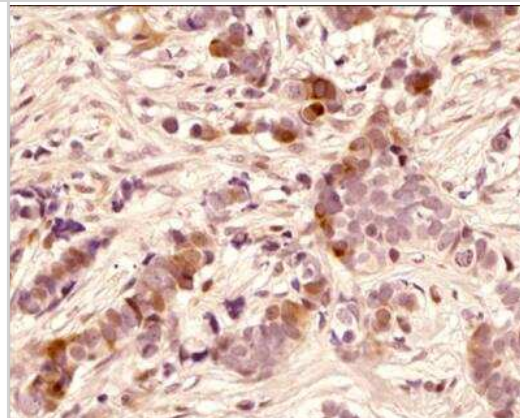


Images

Immunocytochemistry/Immunofluorescence: BTBD12 Antibody [NBP1-28680] - 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 anti-BTBD12 at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. 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 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: BTBD12 Antibody [NBP1-28680] - IHC analysis of a formalin fixed and paraffin embedded tissue section of human breast infiltrating duct carcinoma using BTBD12 antibody at 1:250 dilution. The signal was developed using HRP-conjugated secondary antibody and DAB reagent which followed counter-staining of the cellular nuclei with hematoxylin. This BTBD12 antibody generated a strong and very specific nuclear staining in a subset of cancerous cells in the tested section.



Publications

Zhao X, Feng S, Nitie X et al. SLX1 silencing overcomes Olaparib resistance in metastatic castration-resistant prostate cancer by disrupting SLX4-mediated DNA repair complexes *Cancer biology & therapy* 2025-08-11 [PMID: 40789692]

Higa M, Matsuda Y, Fujii J et al. TRF2-mediated ORC recruitment underlies telomere stability upon DNA replication stress *Nucleic Acids Research* 2021-12-02 [PMID: 34761263] (Chemotaxis, Western Blot, Immunocytochemistry/Immunofluorescence, Human)

Kaima Tsukada, Samuel E Jones, Julius Bannister, Mary-Anne Durin, Iolanda Vendrell, Matthew Fawkes, Roman Fischer, Benedikt M Kessler, J Ross Chapman, Andrew N Blackford BLM and BRCA1-BARD1 coordinate complementary mechanisms of joint DNA molecule resolution. *Molecular cell* 2024-01-19 [PMID: 38266639]

Sung S, Kim E, Niida H et al. Distinct characteristics of two types of alternative lengthening of telomeres in mouse embryonic stem cells *Nucleic acids research* 2023-07-27 [PMID: 37496110] (WB)

Stok C Mitotic processing of DNA replication and repair intermediates in cancer *University of Groningen* 2023-05-23 (WB, Human)

Heijink AM, Stok C, Porubsky D et al. Sister chromatid exchanges induced by perturbed replication can form independently of BRCA1, BRCA2 and RAD51 *Nature communications* 2022-11-07 [PMID: 36344511] (WB, Human)

Details:

Dilution used in ICC 1:1000

Sadhukan R, Ghosh U PARP1 modulates telomere sister chromatid exchange and telomere length homeostasis by regulating telomere localization of SLX4 in U2OS cells *Life Sciences* 2021-05-01 [PMID: 33945829]

Sabatella M, Pines A, Slysikova J et al. ERCC1-XPF targeting to psoralen-DNA crosslinks depends on XPA and FANCD2 *Cell. Mol. Life Sci.* 2019-08-07 [PMID: 31392348] (WB, Human)

Sadhukhan R, Chowdhury P, Ghosh S, Ghosh U. Expression of Telomere-Associated Proteins is Interdependent to Stabilize Native Telomere Structure and Telomere Dysfunction by G-Quadruplex Ligand Causes TERRA Upregulation *Cell Biochem. Biophys.* 2017-11-13 [PMID: 29134494] (Human)

Wan B, Yin J, Horvath K et al. SLX4 Assembles a Telomere Maintenance Toolkit by Bridging Multiple Endonucleases with Telomeres. *Cell Rep.* 2013-09-12 [PMID: 24012755] (ICC/IF, WB, Chemotaxis, Human)





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Products Related to NBP1-28680

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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