Product Datasheet

OBFC1 Antibody (OTI2E4)
NBP2-01006

Unit Size: 0.1 ml

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

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Publications: 5

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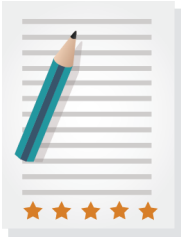
Updated 9/9/2025 v.20.1



NBP2-01006

OBFC1 Antibody (OTI2E4)

Product Information

Unit Size	0.1 ml
Concentration	0.4 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI2E4
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	41.9 kDa

Product Description

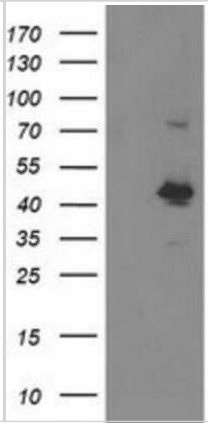
Description	Novus Biologicals Mouse OBFC1 Antibody (OTI2E4) (NBP2-01006) is a monoclonal antibody validated for use in WB, Flow and ICC/IF. Anti-OBFC1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	79991
Gene Symbol	STN1
Species	Human
Immunogen	Full length human recombinant protein of human OBFC1 (NP_079204) produced in HEK293T cell.

Product Application Details

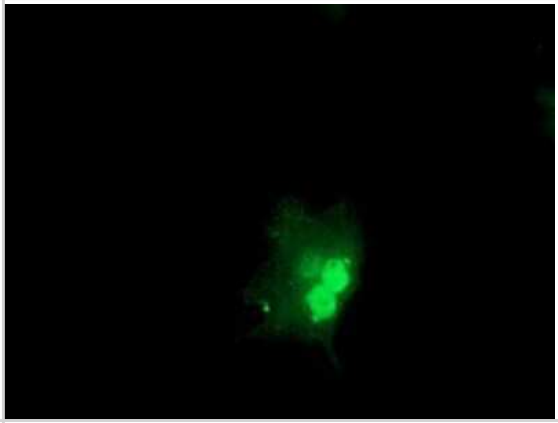
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1:2000, Flow Cytometry 1:100, Immunocytochemistry/ Immunofluorescence 1:100, Proximity Ligation Assay Reported in scientific literature (PMID:34339741)

Images

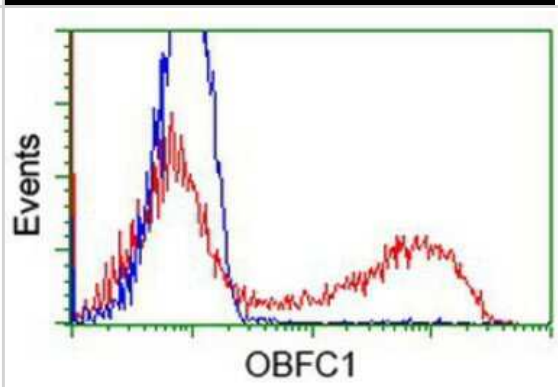
Western Blot: OBFC1 Antibody (2E4) [NBP2-01006] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY OBFC1 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-OBFC1.



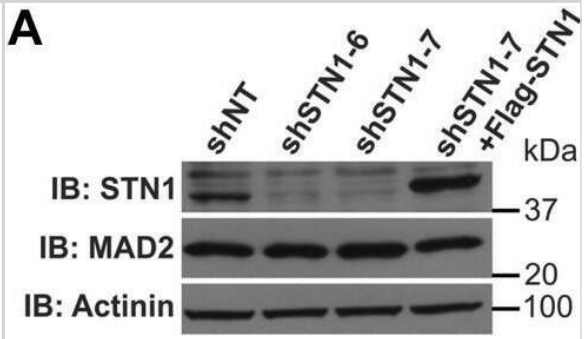
Immunocytochemistry/Immunofluorescence: OBFC1 Antibody (2E4) [NBP2-01006] Staining of COS7 cells transiently transfected by pCMV6-ENTRY OBFC1.



Flow Cytometry: OBFC1 Antibody (2E4) [NBP2-01006] - HEK293T cells transfected with either overexpression plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-OBFC1 antibody, and then analyzed by flow cytometry.



CST deficiency results in SCC loss.A, Western blot of STN1 knockdown and MAD2 levels in HeLa cells. Actinin was used as the loading control. B, example images of metaphase spreads with normal chromosomes or SCC loss. The scale bar represents 5 μm. C, fold increase in cohesion loss after metaphase spread analysis. n = 3 independent, biological replicates. D, representative images of chromosome FISH from cells isolated by mitotic shake-off. Red represents centromere 6 probe; blue represents DAPI. The scale bar represents 5 μm. E, fold increase in nuclei with >4 chromosome 6 foci. n = 4 independent, biological replicates. F, knockdown of CTC1, STN1, or TEN1 by siRNA in HeLa cells. siNT was used as the nontarget control and actinin as the loading control. G, graph of SCC loss after metaphase spread analysis, as indicated. n = 3 independent, biological replicates. (□p < 0.05, □□p < 0.01, and □□□p < 0.001). CST, CTC1-STN1-TEN1; SCC, sister chromatid cohesion; shNT, nontargeting shRNA; shSTN1, shRNA knockdown of STN1; shSTN1+Flag-STN1, shSTN1-7 cells plus shRNA-resistant Flag-STN1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/34339741), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Shen C, Cui T, Yang L et al. KRAS-induced STN1 (OBFC1) promotes proper CTC1–STN1–TEN1 complex-independent DNA double-strand break repair and cell cycle checkpoint maintenance in pancreatic cancer Nucleic acids research 2025-10-14 [PMID: 41036624]

Zaug AJ, Lim CJ, Olson CL et al. CST does not evict elongating telomerase but prevents initiation by ssDNA binding Nucleic Acids Research 2021-11-18 [PMID: 34718732] (Proximity Ligation Assay)

Brandon C Wysong, P Logan Schuck, Madhumita Sridharan, Sophie Carrison, Yuichihiro Murakami, Lata Balakrishnan, Jason A Stewart Human CST Stimulates Base Excision Repair to Prevent the Accumulation of Oxidative DNA Damage. Journal of molecular biology 2024-06-20 [PMID: 38908783]

Zaug AJ, Goodrich KJ, Song JJ et al. Reconstitution of a telomeric replicon organized by CST Nature 2022-07-13 [PMID: 35831508] (WB, Human)

Schuck PL, Ball LE, Stewart JA The DNA-binding protein CST associates with the cohesin complex and promotes chromosome cohesion The Journal of biological chemistry 2021-07-30 [PMID: 34339741] (PLA)

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Products Related to NBP2-01006

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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