

Product Datasheet

WDR79 Antibody NB100-68252

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-68252

WDR79 Antibody

Product Information

Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

Product Description

Host	Rabbit
Gene ID	55135
Gene Symbol	WRAP53
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1 and 50 of human WD repeat domain 79 using the numbering given in entry NP_060551.1 (GeneID 55135).

Product Application Details

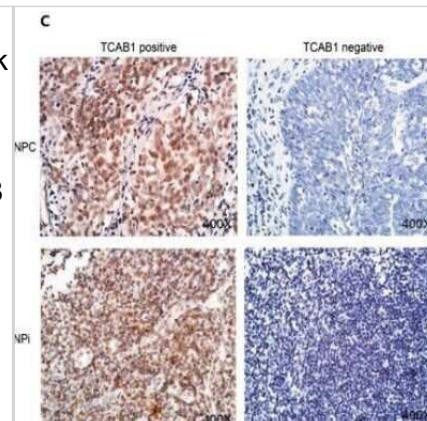
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockout Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:50 -1:250, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:100-1:500, Chromatin Immunoprecipitation (ChIP) 1:10-1:500, Knockout Validated
Application Notes	KO Validation was reported in scientific literature (PMID: 27525486). ICC/IF reactivity reported in (PMID: 27525486), Chip reactivity reported in (PMID: 22547674). Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

Images

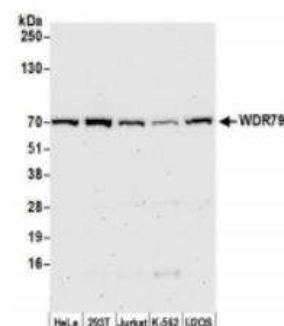
Western Blot: WDR79 Antibody [NB100-68252] - Depletion of WDR79 (TCAB1) reduced the cell proliferation in vitro. Protein level also significantly decreased after shWDR79 (TCAB1) lentivirus treatment. Image collected and cropped by CiteAb from the following publication (<https://molecular-cancer.biomedcentral.com/articles/10.1186/1476-4598-13-180>), licensed under a CC-BY license.



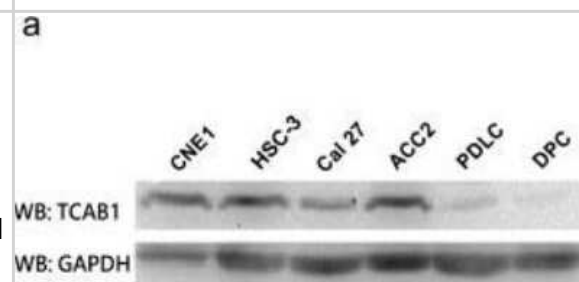
Immunohistochemistry: WDR79 Antibody [NB100-68252] - WDR79 (TCAB1) was overexpressed in cell lines and in tissues of head and neck cancers. The typical IHC results (Left: WDR79 (TCAB1) positive, Right: WDR79 (TCAB1) negative) of WDR79 (TCAB1) in human NPC and Npi. Image collected and cropped by CiteAb from the following publication (<https://molecular-cancer.biomedcentral.com/articles/10.1186/1476-4598-13-180>), licensed under a CC-BY license.



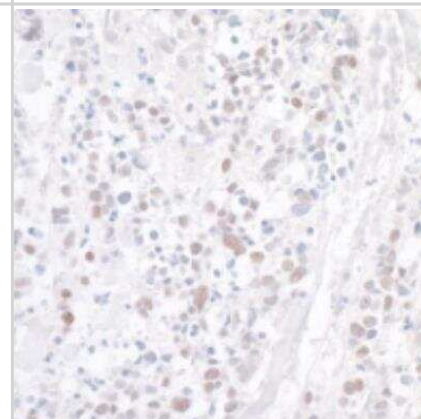
Western Blot: WDR79 Antibody [NB100-68252] - Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, K-562, and U2OS cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-WDR79 antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



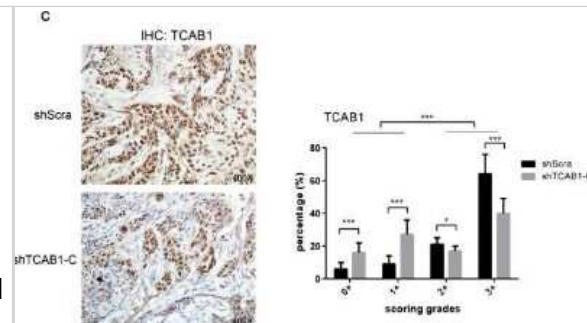
Western Blot: WDR79 Antibody [NB100-68252] - WDR79 (TCAB1) was overexpressed in cell lines and in tissues of head and neck cancers. Protein level of WDR79 (TCAB1) in head and neck cancer cell lines (the first 4 samples) compared to human normal primary cells (the last 2 samples). Image collected and cropped by CiteAb from the following publication (<https://molecular-cancer.biomedcentral.com/articles/10.1186/1476-4598-13-180>), licensed under a CC-BY license.



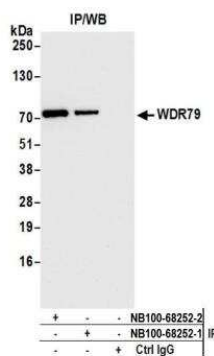
Immunohistochemistry-Paraffin: WDR79 Antibody [NB100-68252] - Section of human lung carcinoma. Antibody: Affinity purified rabbit anti-WDR79 used at a dilution of 1:200 (1ug/ml). Detection: DAB



Immunohistochemistry: WDR79 Antibody [NB100-68252] - WDR79 (TCAB1) knockdown inhibits tumor growth in vivo. Performed IHC against WDR79 (TCAB1) using mice xenografts sections. The smaller tumors expressed less WDR79 (TCAB1) compared to shScra cells. Statistical analysis of the IHC data used Aperio ImageScope software and all of the data were determined by Student's t test (* $P < 0.05$, ** $P < 0.01$, *** $P < 0.005$). Image collected and cropped by CiteAb from the following publication (<https://molecular-cancer.biomedcentral.com/articles/10.1186/1476-4598-13-180>), licensed under a CC-BY license.



Immunoprecipitation: WDR79 Antibody [NB100-68252] - Detection of human WDR79 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-WDR79 antibody NB100-68252 (lot NB100-68252-2) used for IP at 6 ug per reaction. WDR79 was also immunoprecipitated by a previous lot of this antibody (lot NB100-68252-1). For blotting immunoprecipitated WDR79, NB100-68252 was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Publications

Jian Qin, Alexandre Garus, Chantal Autexier The C-terminal extension of dyskerin is a dyskeratosis congenita mutational hotspot that modulates interaction with telomerase RNA and subcellular localization Human Molecular Genetics 2024-02-15 [PMID: 37879098]

Klump BM, Perez GI, Patrick EM et al. TCAB1 prevents nucleolar accumulation of the telomerase RNA to facilitate telomerase assembly Cell reports 2023-06-01 [PMID: 37267110]

Xu G, Yamamoto N, Nojima T, et al. HnRNP F/H associate with hTERC and telomerase holoenzyme to modulate telomerase function and promote cell proliferation Cell Death Differ. 2019-12-20 [PMID: 31863069] (WB, Human)

MacNeil, DE; Lambert-Lanteigne, P; Autexier, C; N-terminal residues of human dyskerin are required for interactions with telomerase RNA that prevent RNA degradation Nucleic Acids Res. 2019-04-01 [PMID: 30931479] (WB, Human)

Vogan JM, Zhang X, Youmans DT et al. Minimized human telomerase maintains telomeres and resolves endogenous roles of H/ACA proteins, TCAB1, and Cajal bodies. Elife. 2016-08-15 [PMID: 27525486] (WB, ICC/IF, Human)

Vogan JM, Collins K. Dynamics of Human Telomerase Holoenzyme Assembly and Subunit Exchange Across the Cell Cycle*. Cell cycle. 2015-07-13 [PMID: 26170453] (ICC/IF, WB, Human)

Schertzer M, Jouravleva K, Perderiset M et al. Human regulator of telomere elongation helicase 1 (RTEL1) is required for the nuclear and cytoplasmic trafficking of pre-U2 RNA Nucleic Acids Res. 2015-01-27 [PMID: 25628358]

Sun CK, Luo XB, Gou YP et al. TCAB1: a potential target for diagnosis and therapy of head and neck carcinomas. Mol. Cancer 2014-07-28 [PMID: 25070141] (WB, IHC-P, Human)

Details:

TCAB1/ WDR79 antibody used for WB (1:2000 dilution in 5% BSA) and IHC-P (Tris-EDTA antigen retrieval for 3-5 min at 100C, primary used at 1:200 dilution) in human head and neck carcinoma cell lines/xenograft and pathological specimens. Figure 1a - WB showing elevated expression of TCAB1 in head and neck cancer cell lines (CNE1, HSC-3, Cal27, ACC2) compared to human normal primary cells (PDLCL, DPC); Figure 2b - WB of TCAB1 in Cal27 cells treated or not with exogenous shTCAB1 lentivirus for TCAB1 depletion; Figure 1c - TCAB1 IHC images of human nasopharyngeal carcinoma/NPC and nasopharyngitis/NPI tissues; Figure 4 - TCAB1 IHC staining of xenograft generated using shTCAB1-C and shScra cells.

Mahmoudi S, Henriksson S, Farnebo L et al. WRAP53 promotes cancer cell survival and is a potential target for cancer therapy. Cell Death Dis 2011-01-01 [PMID: 21368886]

Stern JL, Zyner KG, Pickett HA et al. Telomerase Recruitment Requires both TCAB1 and Cajal Bodies Independently Mol Cell Biol 2012-07-01 [PMID: 22547674] (Chemotaxis, ICC/IF, Human)





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Products Related to NB100-68252

NBL1-17809	WDR44 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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