Product Datasheet

FKBP51/FKBP5 Antibody
NB100-68240

Unit Size: 0.1 ml

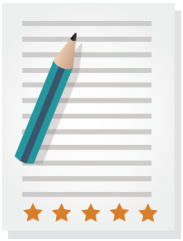
Store at 4C. Do not freeze.

www.novusbio.com technical@novusbio.com

Publications: 7

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-68240

Updated 9/9/2025 v.20.1



NB100-68240

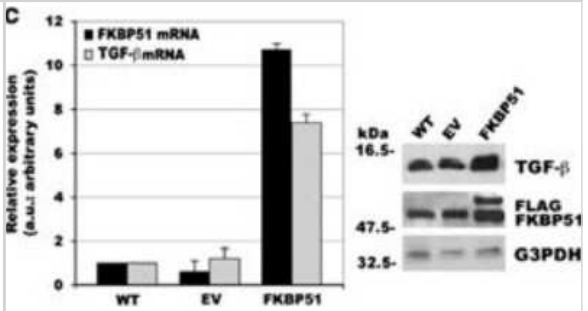
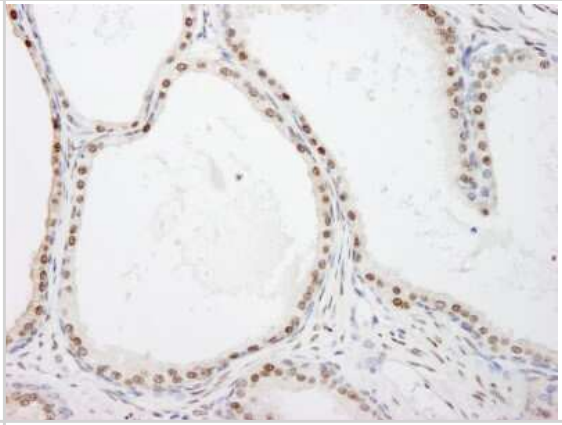
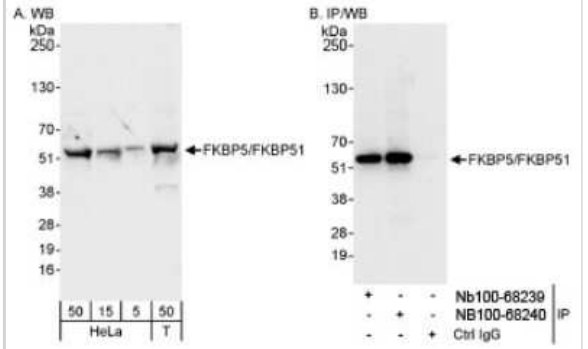
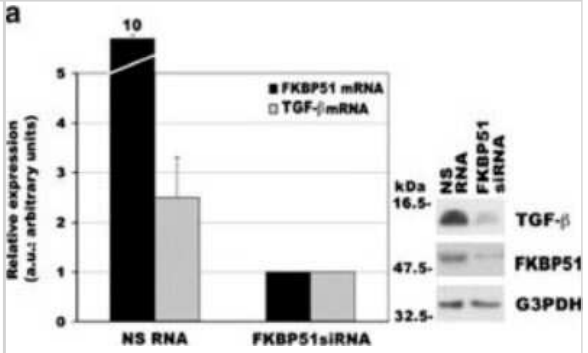
FKBP51/FKBP5 Antibody

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
Target Molecular Weight	51 kDa

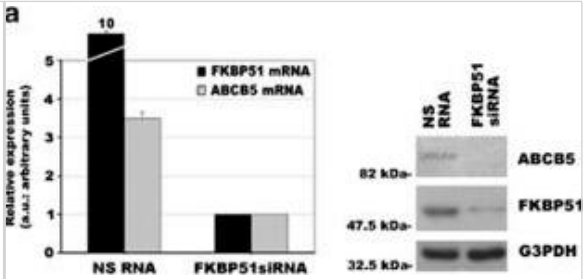
Product Description	
Description	Novus Biologicals Rabbit FKBP51/FKBP5 Antibody (NB100-68240) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-FKBP51/FKBP5 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2289
Gene Symbol	FKBP5
Species	Human
Reactivity Notes	Orangutan (100%).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 407 and 457 of human FK506 binding protein 5 (51 kDa FK506-binding protein) using the numbering given in entry NP_004108.1 (GeneID 2289).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:200 to 1:1000, Knockdown Validated
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID:28978117).

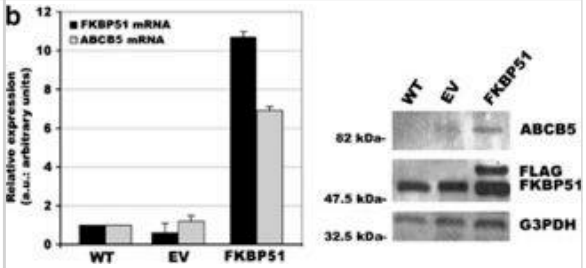
Images

Western Blot: FKBP51/FKBP5 Antibody [NB100-68240] - Normalized expression of TGF-b mRNA in WT, EV-, or FKBP51/FKBP5-stably transfected melanoma cells. WT sample expression 1/4 1. (n 1/4). Western blot assay of TGF-b levels in the same cells. Anti-Flag-labelled exogenous FKBP51/FKBP5. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/cddis2013109), licensed under a CC-BY license.	
Immunohistochemistry: FKBP51/FKBP5 Antibody [NB100-68240] - Sample: FFPE section of human prostate carcinoma. Antibody: Affinity purified rabbit anti-FKBP5/FKBP51 used at a dilution of 1:1,000 (0.2ug/ml). Detection: DAB	
Western Blot: FKBP51/FKBP5 Antibody [NB100-68240] - Western Blot and Immunoprecipitation: FKBP5/FKBP51 Antibody NB100-68240 - Whole cell lysate from HeLa (5, 15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded) and 293T (T; 50 mcg) cells. NB100-68240 used for WB at 0.04 mcg/ml (A) and 1 mcg/ml (B) and used for IP at 3 mcg/mg lysate. FKBP5/FKBP51 was also immunoprecipitated by rabbit anti-FKBP5/FKBP51 antibody NB100-68239, which recognizes an upstream epitope.	
Western Blot: FKBP51/FKBP5 Antibody [NB100-68240] - FKBP51/FKBP5 modulates EMT hallmarks. FKBP51/FKBP5 silencing of SAN melanoma cells decreases TGF-b and TbRIII expression. Normalized expression rates (mean +/-S.D.) of TGF-b mRNA levels; (n 1/4). FKBP51/FKBP5 siRNA-treated sample expression 1/4. 1. Western blot assay of TGF-b in SAN melanoma cells treated with nonsilencing (NS) RNA or FKBP51/FKBP5 siRNA. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/cddis2013109), licensed under a CC-BY license./4	

Western Blot: FKBP51/FKBP5 Antibody [NB100-68240] - FKBP51 increases expression of melanoma CSC markers. (a) FKBP51 silencing decreases ABCB5 levels. (Left) Normalized expression rates (arbitrary units (AU)) (mean±S.D.) of FKBP51 (black) & ABCB5 mRNA (grey) (n=3). FKBP51-treated sample expression=1. (Right) Western blot assay of ABCB5 & FKBP51 levels. (b) FKBP51 overexpression enhances ABCB5 levels. (Left) Normalized expression of FKBP51 mRNA (black) & ABCB5 mRNA (grey) measured in WT, EV-, or FKBP51-stably transfected melanoma cells. WT sample expression=1; n=3. (Left) Western blot assay of ABCB5 & FKBP51 levels in the same cells. Anti-Flag-labelled exogenous FKBP51. (c) ABCG2+ melanoma cells increase in FKBP51-overexpressing cells. (Upper) Normalized expression of FKBP51 mRNA (black) & ABCG2 mRNA (grey) measured in WT, EV-, or FKBP51-stably transfected melanoma cells. WT sample expression=1; n=5. (Lower) Flow cytometric histograms of ABCG2 expression (green population); mean±S.D. of counts are shown. (d) Enhanced FKBP51 mRNA levels in sorted ABCG2+ melanoma cells (SAN, upper; A375, lower). Whole cell expression=1; (n=3). (e) Enhanced EMT gene transcripts in sorted ABCG2+ melanoma cells. ABCG2− sample expression=1; n=3. (f) Expression of ABCG2 transcript in 9 deparaffinized tumours, 4 primary melanoma (M) samples, & 5 metastases (MM). A naevus sample was arbitrarily chosen with expression=1 Image collected & cropped by CiteAb from the following publication (https://www.nature.com/articles/cddis2013109), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: FKBP51/FKBP5 Antibody [NB100-68240] - FKBP51 increases expression of melanoma CSC markers. (a) FKBP51 silencing decreases ABCB5 levels. (Left) Normalized expression rates (arbitrary units (AU)) (mean±S.D.) of FKBP51 (black) & ABCB5 mRNA (grey) (n=3). FKBP51-treated sample expression=1. (Right) Western blot assay of ABCB5 & FKBP51 levels. (b) FKBP51 overexpression enhances ABCB5 levels. (Left) Normalized expression of FKBP51 mRNA (black) & ABCB5 mRNA (grey) measured in WT, EV-, or FKBP51-stably transfected melanoma cells. WT sample expression=1; n=3. (Left) Western blot assay of ABCB5 & FKBP51 levels in the same cells. Anti-Flag-labelled exogenous FKBP51. (c) ABCG2+ melanoma cells increase in FKBP51-overexpressing cells. (Upper) Normalized expression of FKBP51 mRNA (black) & ABCG2 mRNA (grey) measured in WT, EV-, or FKBP51-stably transfected melanoma cells. WT sample expression=1; n=5. (Lower) Flow cytometric histograms of ABCG2 expression (green population); mean±S.D. of counts are shown. (d) Enhanced FKBP51 mRNA levels in sorted ABCG2+ melanoma cells (SAN, upper; A375, lower). Whole cell expression=1; (n=3). (e) Enhanced EMT gene transcripts in sorted ABCG2+ melanoma cells. ABCG2− sample expression=1; n=3. (f) Expression of ABCG2 transcript in 9 deparaffinized tumours, 4 primary melanoma (M) samples, & 5 metastases (MM). A naevus sample was arbitrarily chosen with expression=1 Image collected & cropped by CiteAb from the following publication (https://www.nature.com/articles/cddis2013109), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: FKBP51/FKBP5 Antibody [NB100-68240] - FKBP51 interacts with the general transcriptional co-activator p300. (a, left) FKBP51 co-immunoprecipitates with p300. (a, right), p300 co-immunoprecipitates with FKBP51. Total-cell lysates were prepared by SAN melanoma cells transfected with FKBP51/Flag. Cell lysates were immunoprecipitated with anti-Kat3B/p300 (IP p300) or anti-Flag (IP FKBP51). Immunoprecipitated & total lysates were then subjected to western blot with anti-FKBP51 or anti-p300. (b) ChIP performed with SAN melanoma cells, silenced (FKBP51 siRNA) or not (NS RNA) for FKBP51. An enrichment of DNA (region at −3450 from TSS of ABCG2 gene) can be observed in p300-immunoprecipitated chromatin (NS RNA) compared with IgG sample. Such an enrichment appeared to be reduced when FKBP51 was silenced (FKBP51 siRNA) Image collected & cropped by CiteAb from the following publication (https://www.nature.com/articles/cddis2013109), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Tufano M, Cesaro E, Martinelli R et al. FKBP51 Affects TNF-Related Apoptosis Inducing Ligand Response in Melanoma Frontiers in Cell and Developmental Biology 2021-09-13 [PMID: 34589486] (Western Blot, Human)

Boonying W, Joselin A, Huang E, Qu D et Al. Pink1 regulates FKBP5 interaction with AKT/PHLPP and protects neurons from neurotoxin stress induced by MPP() J Neurochem 2019-02-09 [PMID: 30734931]

Tufano M, Marrone L, D'Ambrosio C et al. FKBP51 plays an essential role in Akt ubiquitination that requires Hsp90 and PHLPP Cell death & disease 2023-02-13 [PMID: 36781840] (WB)

D'arrigo Paolo, Russo Michele, Rea Anna et al. A regulatory role for the co-chaperone FKBP51s in PD-L1 expression in glioma. Oncotarget 2017-07-17 [PMID: 28978117] (KD, WB, ICC/IF, IP, Human)

Romano S, Xiao Y, Nakaya M et al. FKBP51 employs both scaffold and isomerase functions to promote NF-kB activation in melanoma. Nucleic Acids Res. 2015-06-22 [PMID: 26101251] (IP, WB, Human)

Romano S, D'Angelillo A, Staibano S et al. Immunomodulatory pathways regulate expression of a spliced FKBP51 isoform in lymphocytes of melanoma patients Pigment Cell Melanoma Res 2015-04-20 [PMID: 25895097] (WB, Human)

Romano S, Staibano S, Greco A et al. FK506 binding protein 51 positively regulates melanoma stemness and metastatic potential. Cell Death Dis. 2013-04-04 [PMID: 23559012] (WB, Human)

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Products Related to NB100-68240

NBL1-10739	FKBP51/FKBP5 Overexpression Lysate
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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