

Product Datasheet

MKL2 Antibody NBP1-46209

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP1-46209

MKL2 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	118 kDa

Product Description	
Description	Novus Biologicals Rabbit MKL2 Antibody (NBP1-46209) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-MKL2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	57496
Gene Symbol	MRTFB
Species	Human, Mouse, Monkey
Reactivity Notes	Monkey reactivity reported in scientific literature (PMID:31801086).
Immunogen	The immunogen for this product maps to a region between residue 1038 and 1088 of human Megakaryoblastic Leukemia 2 using the numbering given in entry NP_054767.3 (GeneID 57496).

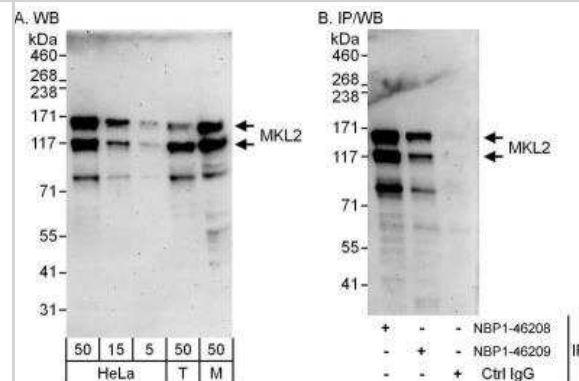
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:200 -1:1000, Immunocytochemistry/ Immunofluorescence Reactivity reported in (PMID: 28592291)., Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:200-1:1000, Immunoblotting Reactivity reported in (PMID: 28592291).
Application Notes	Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.



Images

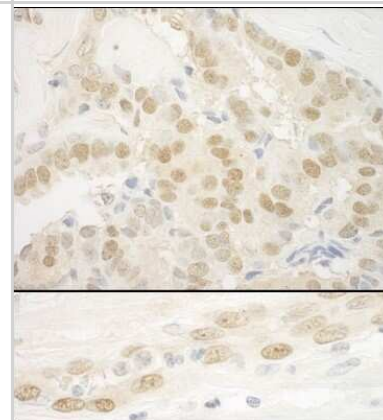
Western Blot: MKL2 Antibody [NBP1-46209] - Samples: Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), 293T (T; 50 ug), and mouse NIH3T3 (M; 50 ug) cells.

Antibodies: Affinity purified rabbit anti-MKL2 antibody NBP1-46209 used for WB at 0.04 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate. MKL2 was also immunoprecipitated by rabbit anti-MKL2 antibody NBP1-46208, which recognizes an upstream epitope. Detection: Chemiluminescence with exposure times of 10 seconds (A and B).

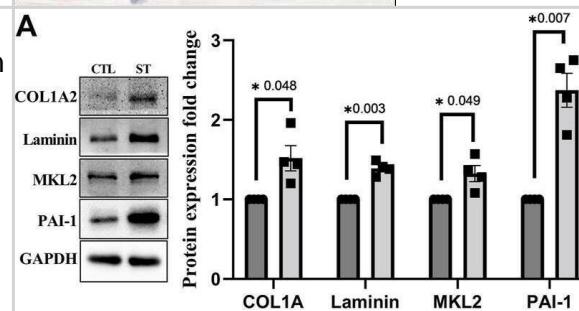


Immunohistochemistry-Paraffin: MKL2 Antibody [NBP1-46209] - Section of human prostate carcinoma and linitis plastica stomach cancer .

Antibody: Affinity purified rabbit anti-MKL2 used at a dilution of 1:200 (1ug/ml) and 1:1,000 (0.2ug/ml). Detection: DAB



Immunoblot analysis for ECM and fibrosis-related proteins and proteins involved in cholesterol biosynthesis. (A) Confirmatory analysis for protein expression changes in HTM cells subjected to CMS for 24 h. COL1A2, total laminin, MKL2, and PAI-1 showed a significant upregulation at 24 h of CMS (ST) compared to unstretched control (CTL). (B) Confirmatory analysis for proteins involved in cholesterol biosynthesis in HTM cells subjected to CMS for 24 h. HMGCS1 and n-SREBP2 showed a significant upregulation at 24 h of CMS (ST) compared to unstretched control (CTL). The results were based on immunoblot analysis with subsequent densitometric analysis. GAPDH was immunoblotted as the loading control. Circles and boxes in the histograms represent sample numbers for CTL and ST, respectively. Values represent mean \pm SEM, where $n = 4$ (biological replicates). * $p \leq 0.050$ was considered significant. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36176278>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Soundararajan A, Wang T, Sundararajan R et al. Multiomics analysis reveals the mechanical stress-dependent changes in trabecular meshwork cytoskeletal-extracellular matrix interactions *Frontiers in Cell and Developmental Biology* 2022-09-13 [PMID: 36176278] (Immunoblotting, Immunocytochemistry/ Immunofluorescence, Human)

Ariza A, Funahashi Y, Kozawa S, Omar Faruk M et Al. Dynamic subcellular localization and transcription activity of the SRF cofactor MKL2 in the striatum are regulated by MAPK *J Neurochem* 2021-01-15 [PMID: 33449379]

Heib T, Hermanns HM, Manukjan G et al. RhoA/Cdc42 signaling drives cytoplasmic maturation but not endomitosis in megakaryocytes *Cell reports* 2021-05-11 [PMID: 33979620] (WB, Mouse)

Funahashi Y, Ariza A, Emi R, et al. Phosphorylation of Npas4 by MAPK Regulates Reward-Related Gene Expression and Behaviors *Cell Rep* 2019-12-03 [PMID: 31801086] (WB, Monkey, Human)

Seifert A, Posern G. Tightly controlled MRTF-A activity regulates epithelial differentiation during formation of mammary acini. *Breast Cancer Res.* 2017-06-07 [PMID: 28592291] (ICC/IF, IB, Human)





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Products Related to NBP1-46209

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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