Product Datasheet

MKRN2 Antibody
NBP2-17301

Unit Size: 0.1 ml

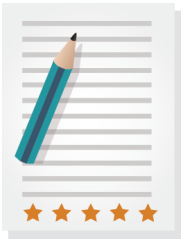
Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-17301

Updated 9/25/2025 v.20.1



NBP2-17301

MKRN2 Antibody

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	47 kDa

Product Description

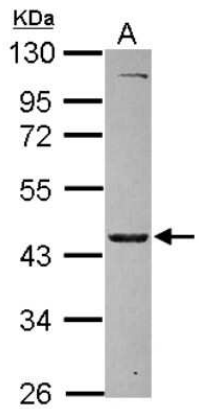
Description	Novus Biologicals Rabbit MKRN2 Antibody (NBP2-17301) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-MKRN2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23609
Gene Symbol	MKRN2
Species	Human
Immunogen	Recombinant protein encompassing a sequence within the center region of human MKRN2. The exact sequence is proprietary.

Product Application Details

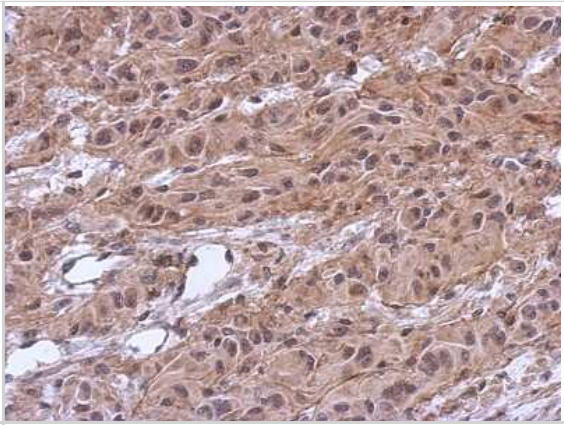
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

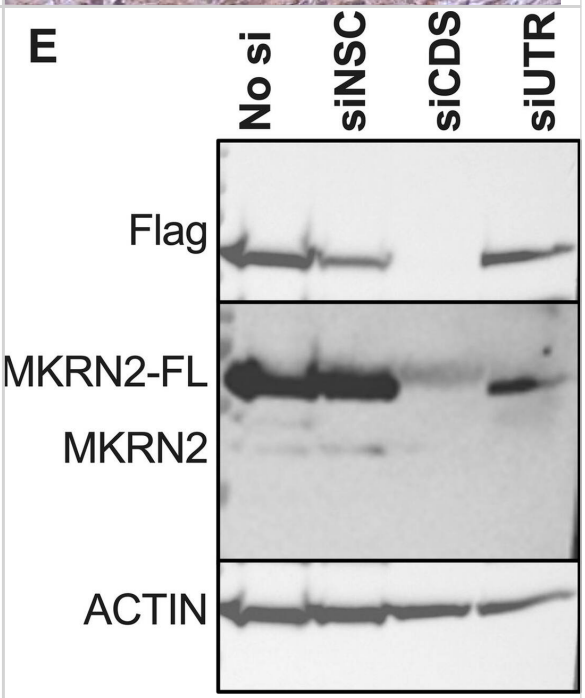
Western Blot: MKRN2 Antibody [NBP2-17301] - Sample (30 ug of whole cell lysate) A: Jurkat 10% SDS PAGE gel, diluted at 1:1000.



Immunohistochemistry-Paraffin: MKRN2 Antibody [NBP2-17301] - U373 xenograft, using MKRN2 antibody at 1:500 dilution.Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



Investigation of the phenotypic effect of MKRN2 depletion on IAV replication.(A) Demonstration by Western blotting that the MKRN2 siRNA pair reduce MKRN2 protein levels at 48 h post transfection. Knockdown of MKRN2 in A549 cells, followed by infection with A/WSN/33 (B), A/California/7/2009 (C) or A/Norway/466/2014 (D) significantly reduced virus output from these cells as measured by plaque assay. (E) Western blot demonstrating that the MKRN2 siRNA pair reduce expression of endogenous and lentiviral expressed MKRN2 in an overexpression A549 cell line, while an siRNA pair targeting the MKRN2 3' UTR only reduce expression of the endogenous MKRN2 protein. (F) A/California/7/2009 titres from MKRN2 overexpression A549 cells demonstrate that while reducing all MKRN2 expression significantly reduced virus output, knocking down endogenous MKRN2 while expressing wild-type MKRN2 from a lentiviral cassette rescues this phenotype. (G) Early viral RNA dynamics in siMKRN2 treated cells were quantified by qPCR, revealing that a loss of MKRN2 significantly reduced viral NP mRNA levels early in infection. (H) Overall titres from low MOI infections (MOI 0.01) were measured at 6, 24 and 48 hpi for both conditions, (I) alongside NP mRNA, vRNA and MKRN2 mRNA levels at matching timepoints. (J) High MOI infections (MOI 3) were performed in similarly siRNA treated cells and total RNA was harvested at 0, 2, 4 and 6 hpi. Again NP mRNA, vRNA and MKRN2 mRNA levels were quantified in these sample, representing single round infection dynamics. Image collected and cropped by CiteAb from the following open publication (https://dx.plos.org/10.1371/journal.ppat.1012231), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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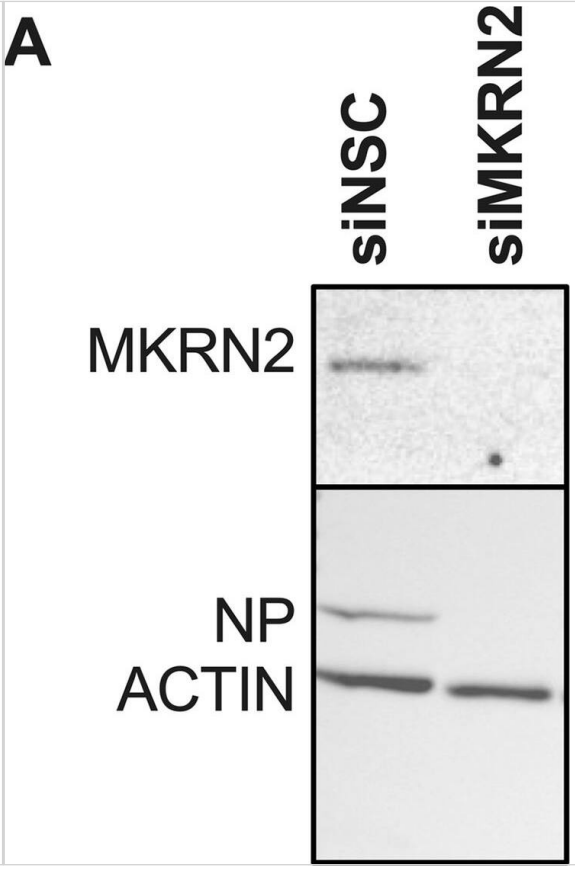

Publications

Bonazza S, Coutts HL, Sukumar S et Al. Identifying cellular RNA-binding proteins during infection uncovers a role for MKRN2 in influenza mRNA trafficking PLoS Pathog 2024-05-16 [PMID: 38753876]

Bonazza S, Coutts H, Sukumar S et al. Identifying cellular RNA-binding proteins during infection uncovers a role for MKRN2 in influenza mRNA trafficking bioRxiv 2023-10-31 (ICC/IF, WB, Human)

Details:
WB Dilution 1:5000; ICC/IF Dilution 1:200

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Products Related to NBP2-17301

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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