

Product Datasheet

RIOK1 Antibody NBP1-30103

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP1-30103

RIOK1 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

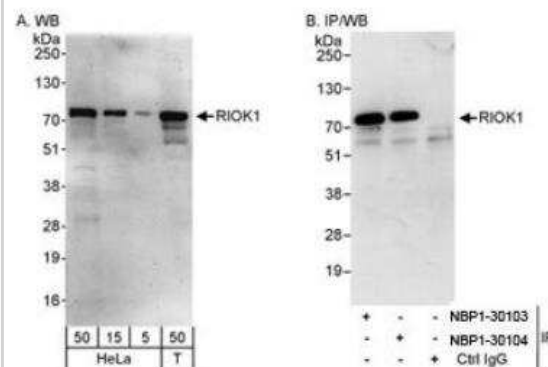
Product Description	
Description	Novus Biologicals Rabbit RIOK1 Antibody (NBP1-30103) is a polyclonal antibody validated for use in WB and IP. Anti-RIOK1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	83732
Gene Symbol	RIOK1
Species	Human
Immunogen	maps to a region between residue 1 and 50 of human RIO kinase 1 using the numbering given in entry NP_113668.2

Product Application Details	
Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation 2-5 ug/mg lysate
Application Notes	Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.

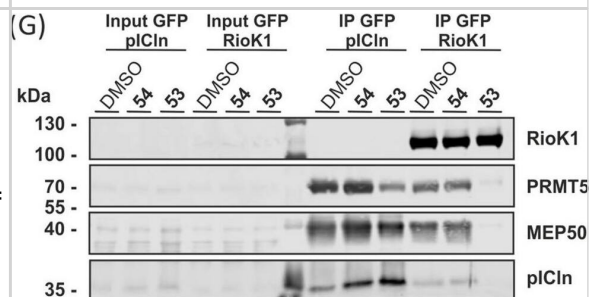


Images

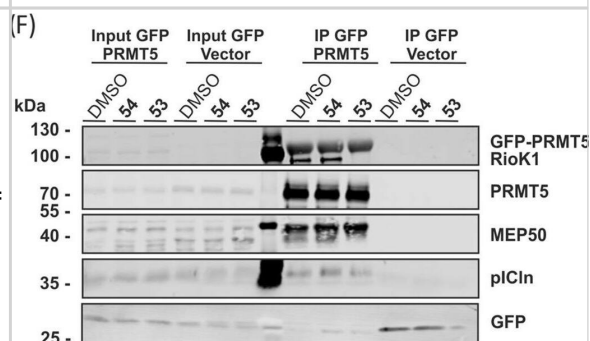
Western Blot: RIOK1 Antibody [NBP1-30103] - Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) and HEK293T (T; 50 ug) cells. Antibodies: Affinity purified rabbit anti-RIOK1 antibody used for WB at 0.04 ug/ml (A) and 0.4 ug/ml (B) and used for IP at 3 ug/mg lysate. RIOK1 was also immunoprecipitated by rabbit anti-RIOK1 antibody, which recognizes a downstream epitope. Detection: Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).



(A) FP results for linear sequence 29 and 2nd and 3rd generation macrocyclic PAPIIs with PRMT5-MEP50 (n = 3). (B) FP competition of representative linear and macrocyclic peptides with FITC-labeled 50 for binding to PRMT5-MEP50 (n = 3). (C) FP competition of 2nd and 3rd generation PAPIIs and the unlabeled pICln protein with the Alexa 488-labeled full-length human pICln protein for binding to PRMT5-MEP50 (n = 3). (D) Comparison of the effects of linear and cyclic peptides on the melting temperature of the TIM-MEP50 complex, as determined by TSA (n = 6). (E) Pull-down assay with peptides 55 and scrambled 56 immobilized on the DBCO beads using MCF7 cell lysate. Immobilized 55 was also tested with the lysate containing 100 μ M of free 56. (F) GFP-IP from the lysate of Flp-In T-REx 293-GFP and Flp-In T-REx 293-GFP-PRMT5 overexpressing cells, testing compound 53 and scrambled 54 at 50 μ M. (G) GFP-IP from Flp-In T-REx 293-GFP-pICln and Flp-In T-REx 293-GFP-RioK1 cytoplasmic extract, testing 53 and 54 at 50 μ M. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36378254>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



(A) FP results for linear sequence 29 and 2nd and 3rd generation macrocyclic PAPIIs with PRMT5-MEP50 (n = 3). (B) FP competition of representative linear and macrocyclic peptides with FITC-labeled 50 for binding to PRMT5-MEP50 (n = 3). (C) FP competition of 2nd and 3rd generation PAPIIs and the unlabeled pICln protein with the Alexa 488-labeled full-length human pICln protein for binding to PRMT5-MEP50 (n = 3). (D) Comparison of the effects of linear and cyclic peptides on the melting temperature of the TIM-MEP50 complex, as determined by TSA (n = 6). (E) Pull-down assay with peptides 55 and scrambled 56 immobilized on the DBCO beads using MCF7 cell lysate. Immobilized 55 was also tested with the lysate containing 100 μ M of free 56. (F) GFP-IP from the lysate of Flp-In T-REx 293-GFP and Flp-In T-REx 293-GFP-PRMT5 overexpressing cells, testing compound 53 and scrambled 54 at 50 μ M. (G) GFP-IP from Flp-In T-REx 293-GFP-pICln and Flp-In T-REx 293-GFP-RioK1 cytoplasmic extract, testing 53 and 54 at 50 μ M. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36378254>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Jan Cox, Lea Marie Esser, Maximilian Jüdt, Katharina Schmitz, Kaja Reiffert, Matthias Grimmmler, Björn Stork, Sebastian Wesselborg, Christoph Peter NF90/NFAR (nuclear factors associated with dsRNA) - a new methylation substrate of the PRMT5-WD45-RioK1 complex. *Biological chemistry* 2022-09-13 [PMID: 36040368]

Krzyzanowski A, Esser LM, Willaume A et al. Development of Macrocyclic PRMT5-Adaptor Protein Interaction Inhibitors *Journal of medicinal chemistry* 2022-11-24 [PMID: 36378254] (WB, Human)





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Products Related to NBP1-30103

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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