

Product Datasheet

KIF2B Antibody - BSA Free

NBP1-86002

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 2

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NBP1-86002

KIF2B Antibody - BSA Free

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	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

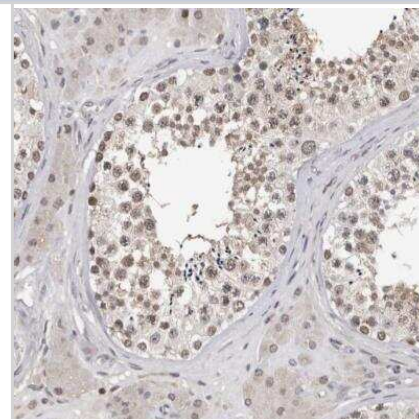
Product Description	
Description	Novus Biologicals Rabbit KIF2B Antibody - BSA Free (NBP1-86002) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-KIF2B Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	84643
Gene Symbol	KIF2B
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ALAPSSAIRDQRTATKWVAMIPQKNQTASGDSLDRVPSKPCLMKQKKSPCL WEIQKLQEQREKRRRLQQEIRARRALDVNTRN

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

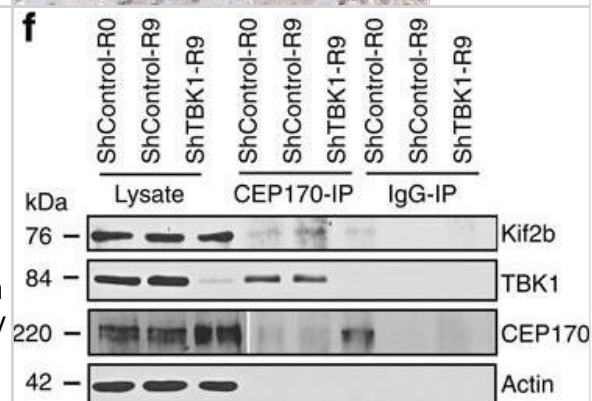


Images

Immunohistochemistry-Paraffin: KIF2B Antibody [NBP1-86002] - Staining of human testis shows moderate nuclear and cytoplasmic positivity in seminiferous ducts.



Western Blot: KIF2B Antibody [NBP1-86002] - TBK1 depletion alters microtubule dynamics. (a) Shcontrol A549 or H1650 cells treated with 0.1 μ M nocodazole for 15 min showed complete disruption of microtubules, while TBK1-depleted shTBK1 A549 or H1650 cells retained stable microtubules as seen by staining for alpha tubulin (green) & CEP170 (red). (b) Mitotic spindles in TBK1-depleted A549 & H460 cells were more stable after nocodazole treatment as compared to control cells. Alpha tubulin (green) shows mitotic spindles. (c) shTBK1 A549 or H1650 cells when subjected to cold temperature (4 $^{\circ}$ C) & subsequent incubation at warm temperature (37 $^{\circ}$ C) had stable microtubules versus analogously treated shcontrol A549 or H1650 cells. Alpha Tubulin (green), CEP170 (red) & DNA (DAPI, Blue). (d) Similar results were observed in mitotic cells where mitotic spindles of TBK1-depleted A549 or H460 cells were more stable compared to control shRNA-treated cells. Alpha tubulin (green). (e) Stability of microtubules were drastically reduced in A549 cells overexpressing TBK1 when treated with 5 μ M nocodazole & allowed to regrow for 7 min; Scale bar, 10 μ m for e. (f) Low magnification images of cells in c. Scale bar, 25 μ m. (g-i) TBK1 is required for the binding of CEP170 with Kif2b (g) as well as for the association of NuMA with dynein (i), as seen by immunoprecipitation-western blot analysis. (h) Western blot for pH3S10 to confirm mitotic fractions. Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/ncomms10072>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Leung JC, Cassimeris L Reorganization of paclitaxel-stabilized microtubule arrays at mitotic entry: roles of depolymerizing kinesins and severing proteins *Cancer Biol. Ther.* 2019-07-25 [PMID: 31345098] (WB, KD, Human)

Pillai S, Nguyen J, Johnson J et al. Tank binding kinase 1 is a centrosome-associated kinase necessary for microtubule dynamics and mitosis. *Nat Commun.* 2015-12-15 [PMID: 26656453] (ICC/IF, Human)



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Products Related to NBP1-86002

NBP1-86002PEP	KIF2B Recombinant Protein Antigen
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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