

Product Datasheet

Rabex5 Antibody - BSA Free

NBP1-49938

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP1-49938

Rabex5 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

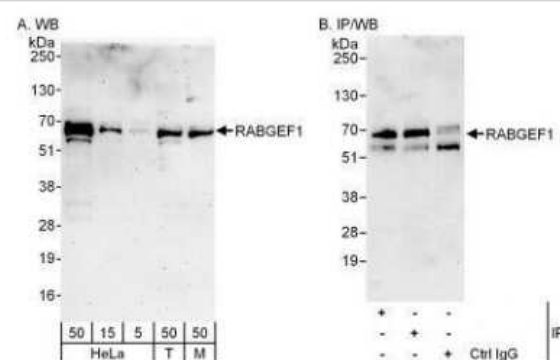
Host	Rabbit
Gene ID	27342
Gene Symbol	RABGEF1
Species	Human, Mouse
Immunogen	The immunogen for this product maps to a region between residue 175 and 225 of human RAB Guanine Nucleotide Exchange Factor (GEF) 1 using the numbering given in entry BAC87138.1 (GeneID 27342).

Product Application Details

Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:500- 1:2000
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

Images

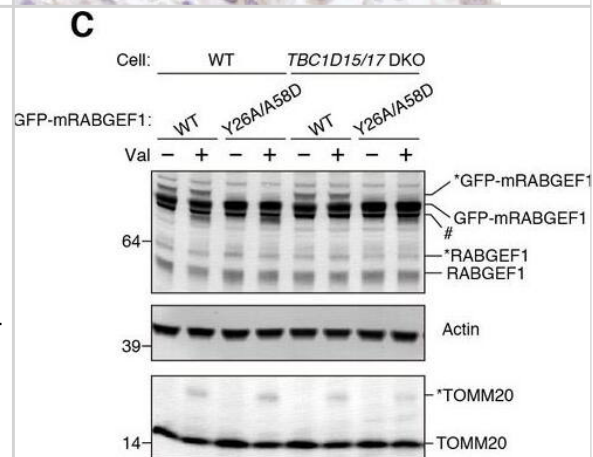
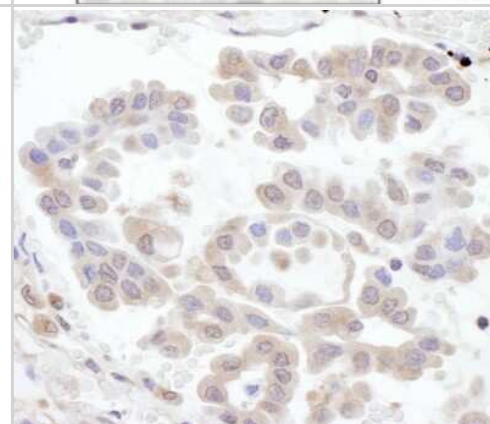
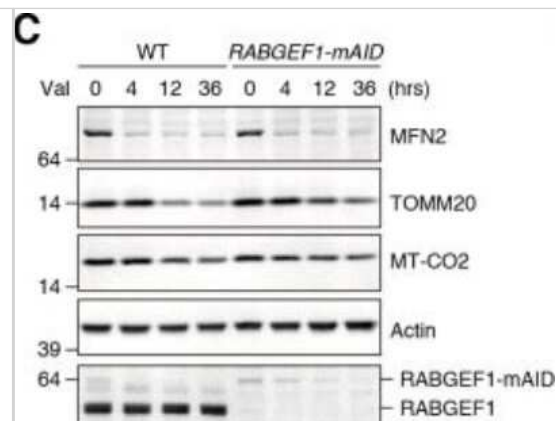
Western Blot: Rabex5 Antibody [NBP1-49938] - Detection of Human and Mouse RABGEF1 by Western Blot (h&m) and Immunoprecipitation (h). Samples: Whole cell lysate from HeLa (5, 15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded), 293T (T; 50 mcg) and mouse NIH3T3 (M; 50 mcg) cells. Antibodies: Affinity purified rabbit anti-RABGEF1 antibody used for WB at 0.1 mcg/ml (A) and 1 mcg/ml (B) and used for IP at 3 mcg/mg lysate. RABGEF1 was also immunoprecipitated by rabbit anti-RABGEF1 antibody which recognizes a downstream epitope. For blotting immunoprecipitated RABGEF1 was used. Detection: Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).



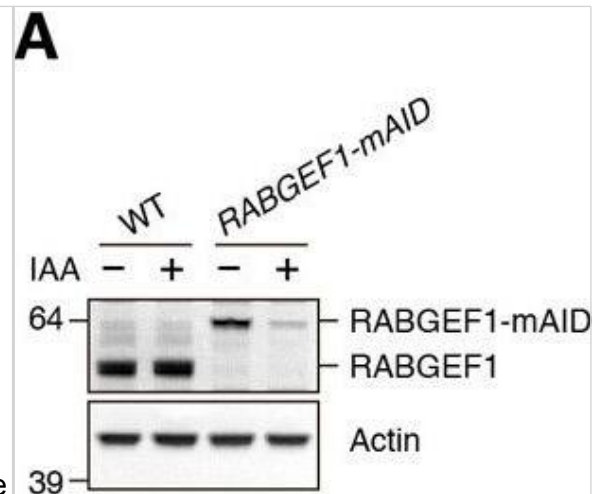
Western Blot: Rabex5 Antibody [NBP1-49938] - RABGEF1 is important for mitochondrial clearance. YFP-Parkin stably expressing WT and RABGEF1-mAID HCT116 cells pre-treated with IAA were treated with valinomycin for the indicated times. Total cell lysates were analyzed by immunoblotting. Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/31326>), licensed under a CC-BY license.

Immunohistochemistry-Paraffin: Rabex5 Antibody [NBP1-49938] - Section of human lung carcinoma. Antibody: Affinity purified rabbit anti-RABGEF1 used at a dilution of 1:1,000 (1 μ g/ml). Detection: DAB

Western Blot: Rabex5 Antibody [NBP1-49938] - RABGEF1 recruitment to mitochondria during mitophagy. (A) The indicated cells were treated with DMSO or valinomycin for 3 hr followed by immunostaining. Bars, 10 μ m. Graphs for quantification of RABGEF1 recruitment to mitochondria were shown below the images. None, partial & complete denote that GFP-mRABGEF1 signals were overlapped with no, some of, & all mitochondria, respectively. The error bars represent mean $\pm$ SE & over 100 cells were counted in each of three separate wells. (B) WT & TBC1D15/17 DKO HCT116 cells stably expressing mCherry-Parkin & GFP-mRABGEF1 were treated with DMSO or valinomycin for 3 hr. GFP-mRABGEF1 signals were enhanced by immunostaining with anti-GFP antibody. Bars, 10 μ m. (C) Total cell lysates in (B) were analyzed by immunoblotting. * & # denote ubiquitinated forms & truncated forms, respectively. [10.7554/eLife.31326.031](https://doi.org/10.7554/eLife.31326.031) Figure 8—figure supplement 1—source data 1. This excel file contains quantification of RABGEF1 (WT & Y26A/A58D mutant) recruitment to mitochondria in HCT116 (WT & TBC1D15/17 DKO) cells. This excel file contains quantification of RABGEF1 (WT & Y26A/A58D mutant) recruitment to mitochondria in HCT116 (WT & TBC1D15/17 DKO) cells. Image collected & cropped by CiteAb from the following publication (<https://elifesciences.org/articles/31326>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: Rabex5 Antibody [NBP1-49938] - RABGEF1 is important for mitochondrial clearance. (A) WT & RABGEF1-mAID HCT116 cells were treated with or without IAA for 16 hr. Total cell lysates were analyzed by immunoblotting. (B) Quantification of Parkin recruitment to mitochondria in WT & RABGEF1-mAID HCT116 cells after 3 hr of valinomycin treatment. Partial & complete denote that YFP-Parkin signals were overlapped with some of & all mitochondria, respectively. (C) YFP-Parkin stably expressing WT & RABGEF1-mAID HCT116 cells pre-treated with IAA were treated with valinomycin for the indicated times. Total cell lysates were analyzed by immunoblotting. (D) WT & RABGEF1-mAID HCT116 cells stably expressing YFP-Parkin & mt-mKeima were treated with IAA for 16 hr followed by DMSO or OAQ for 6 hr & subjected to FACS analysis. Plots are representative of $n = 3$ experiments. (E) Quantification of mitophagy in (D). Error bars represent mean $\pm$ SE of three independent experiments. Statistical differences were determined by student's t-test. * $p < 0.05$. 10.7554/eLife.31326.035 Figure 9—source data 1. Quantification of YFP-Parkin recruitment to mitochondria in RABGEF1-mAID HCT116 & the corresponding WT cells during mitophagy. 10.7554/eLife.31326.036 Figure 9—source data 2. Quantification of mitophagy using mt-mKeima & FACS analysis. Quantification of YFP-Parkin recruitment to mitochondria in RABGEF1-mAID HCT116 & the corresponding WT cells during mitophagy. Quantification of mitophagy using mt-mKeima & FACS analysis. Image collected & cropped by CiteAb from the following publication (<https://elifesciences.org/articles/31326>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yamano K, Wang C, Sarraf SA et al. Endosomal Rab cycles regulate Parkin-mediated mitophagy Elife 2018-01-23 [PMID: 29360040] (WB, Human)

Lucitti JL, Sealock R, Buckley BK et al. Variants of Rab GTPase-Effector Binding Protein-2 Cause Variation in the Collateral Circulation and Severity of Stroke. Stroke. 2016-12-01 [PMID: 27811335]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-49938

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-76548PEP	Rabex5 Antibody Blocking Peptide

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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