

Product Datasheet

RAP1GDS1 Antibody - BSA Free

NBP1-87027

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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NBP1-87027

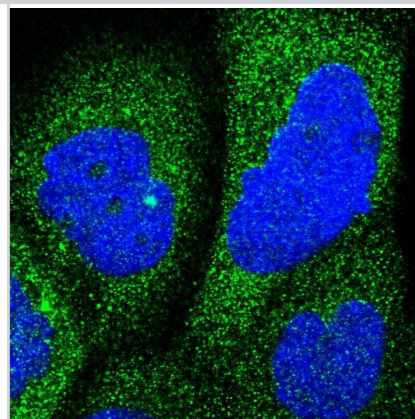
RAP1GDS1 Antibody - BSA Free

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 RAP1GDS1 Antibody - BSA Free (NBP1-87027) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-RAP1GDS1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5910
Gene Symbol	RAP1GDS1
Species	Human
Reactivity Notes	Reactivity reported in scientific literature (PMID: 23435261)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ESSKQFASTNIAEELVKLFKKQIEHDKREMIFEVLAPLAENDAIKLQLVEAGLVEC LLEIVQQKVDSKDDEITELKTGSDLMVLLLLGDESMQKLFEGGKGSVFQRVLS WIPSNHQLQLAGA
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

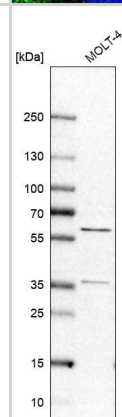


Images

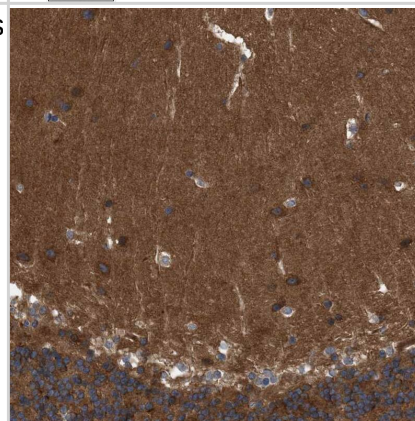
Staining of human cell line A-431 shows positivity in cytoplasm.



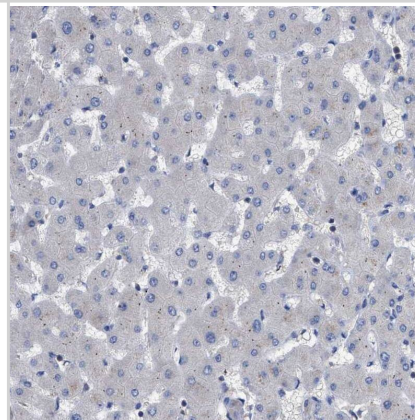
Analysis in human cell line MOLT-4.



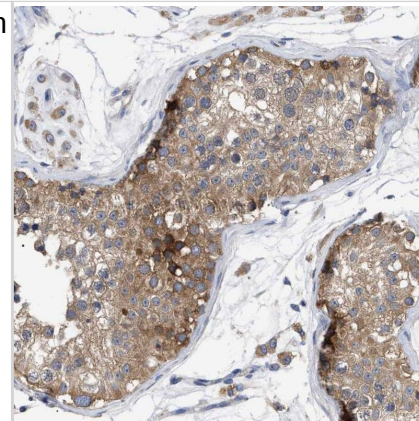
Staining of human cerebellum shows strong cytoplasmic positivity in cells in molecular layer.



Staining of human liver shows no positivity in hepatocytes as expected.



Staining of human testis shows moderate cytoplasmic positivity in cells in seminiferous ducts.

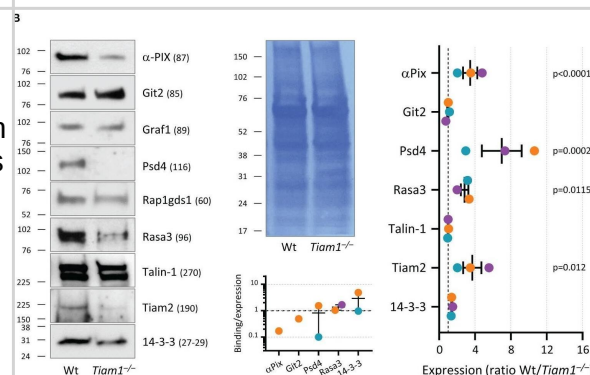


Staining of human cerebral cortex shows strong cytoplasmic positivity in neuropil and neurons.



Tiam1 controls the expression of small GTPase and cytoskeletal regulators, and the association of Rasa3 with Rac in neutrophils adhering to ICAM1. Wild type and Tiam1^{-/-} neutrophils were allowed to adhere to 50 mm glass coverslips coated with ICAM1 during priming with 50 ng/ml GM-CSF, 20 ng/ml TNF α for 50 min at 37C, 5% CO₂. DFP was added for 10 min before neutrophils were stimulated with 1.5 μ M fMLP for 1 min and then lysed. The cleared supernatants (total lysates) were incubated with immobilised Rac1G15A to isolate proteins that interact with nucleotide-free Rac. (A) Targeted mass spectrometry was performed for 21 proteins found to bind Rac1G15A (left). 14 proteins could be compared between wild type (Wt) and Tiam1^{-/-} samples, 12 proteins in at least 2 out of 3 independent experiments (right).

Wt/Tiam1^{-/-} ratios are mean $\pm$ SEM or range, as appropriate, of 2-3 independent experiments; coloured dots depict the different experiments. Statistics are one-way ANOVA with Dunnett's multiple comparisons test on log-transformed ratios. (B) Total lysates from the experiments in (A) were western blotted with the indicated antibodies. Representative western blots and coomassie loading control are shown. Blots of selected proteins were quantified by densitometry (right). Wt/Tiam1^{-/-} ratios are expressed as mean $\pm$ SEM of 3 independent experiments; statistics are two-way ANOVA with Sidak's multiple comparisons test on raw band intensities. Bottom panel: The Wt/Tiam1^{-/-} Rac1G15A binding ratio is expressed as a function of the Wt/Tiam1^{-/-} expression level for the indicated proteins. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38077328>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kirsti Hornigold, Martin J. Baker, Polly A. Machin, Stephen A. Chetwynd, Anna-Karin Johnsson, Chiara Pantarelli, Priota Islam, Melanie Stammers, Laraine Crossland, David Oxley, Hanneke Okkenhaug, Simon Walker, Rachael Walker, Anne Segonds-Pichon, Yoshinori Fukui, Angeliki Malliri, Heidi C. E. Welch The Rac-GEF Tiam1 controls integrin-dependent neutrophil responses *Frontiers in Immunology* 2023-11-21 [PMID: 38077328]

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. *Nat Methods* 2013-04-01 [PMID: 23435261]





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Products Related to NBP1-87027

NBP1-87027PEP	RAP1GDS1 Recombinant Protein Antigen
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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