Product Datasheet

Rac1 Antibody NB100-91266

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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NB100-91266

Rac1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute in 0.1 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
Isotype	IgG
Purity	Unpurified
Buffer	Lyophilized from whole antisera
Product Description	
Host	Rabbit
Gene ID	5879
Gene Symbol	RAC1
Species	Human, Mouse, Rat
Reactivity Notes	Predicted cross-reactivity based on antigen identity: Guinea pig, Bovine, Xenopus, Canine, Zebrafish, Chicken.
Specificity/Sensitivity	Detects both RAC1 (Gene ID: 5879, UniProt: P63000) and RAC2 (Gene ID: 5880, UniProt: P15153).
Immunogen	This Rac1 antibody was developed against a synthetic peptide from amino acid region 100-150 as a part of human Rac1 conjugated to blue carrier protein.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry- Paraffin
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry 1:1000 - 1:2000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 1:1000 - 1:2000, Immunohistochemistry-Frozen 1:1000 - 1:2000
Application Notes	This Rac1 antibody is validated for ICC/IF from a verified customer review.

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Images

Western Blot: Rac1 Antibody [NB100-91266] - WB on tissue lysates. Blocking: 1% LFDM for 30 min at RT; primary antibody dilution: 1:1000 incubated overnight at 4C.









Immunocytochemistry/Immunofluorescence: Rac1 Antibody [NB100-91266] - Mouse Brain (cerebral cortex). ICC/IF image submitted by a verified customer review.

Immunohistochemistry: Rac1 Antibody [NB100-91266] - Rat spinal cord using Rabbit antibody to RAC1, RAC2 (100-150) at 1:1000 dilution. Preabsorption of the antibody with the immunising peptide completely abolishes the immunostaining (not shown).

Immunohistochemistry: Rac1 Antibody [NB100-91266] - Rat spinal cord (ventral horn) using Rabbit antibody to RAC1, RAC2 whole serum at 1:1000 dilution. Pre-absorption of the antibody with the immunizing peptide completely abolishes the immunostaining (not shown).





Publications

Yoon, Y M, Go, G Et al. Melatonin Suppresses Renal Cortical Fibrosis by Inhibiting Cytoskeleton Reorganization and Mitochondrial Dysfunction through Regulation of miR-4516. Int J Mol Sci 2020-07-27 [PMID: 32727098] (IF/IHC, Rabbit)

Manisaligil YA, Gumustekin M, Micili SC Et al. The role of small GTPase Rac1 in ionizing radiation-induced testicular damage International journal of radiation biology 2021-10-13 [PMID: 34597250] (IF/IHC, Rat)

Sylow L, Kleinert M, Pehmoller C et al. Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. Cell Signal. 2013-11-09 [PMID: 24216610] (IF/IHC, Mouse)

Sylow L, Jensen TE, Kleinert M et al. Rac1 signaling is required for insulin-stimulated glucose uptake and is dysregulated in insulin resistant murine and human skeletal muscle. Diabetes 2013-02-19 [PMID: 23423567]

Sylow L, Jensen TE, Kleinert M et al. Rac1 Is a Novel Regulator of Contraction-Stimulated Glucose Uptake in Skeletal Muscle. Diabetes 2012-12-28 [PMID: 23274900]





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Products Related to NB100-91266

NBC1-18385	Recombinant Human Rac1 Protein
NBP2-24891	Rabbit IgG Isotype Control
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]

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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