

Product Datasheet

RAP1A Antibody (1D4-1A3)

NBP2-22527

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-22527**RAP1A Antibody (1D4-1A3)**

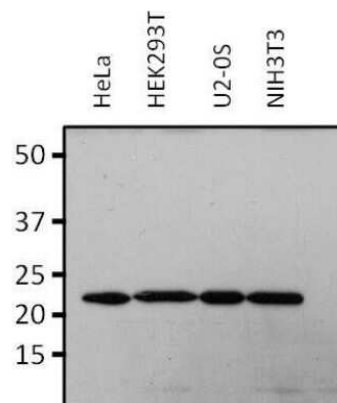
Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1D4-1A3
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS with 1 mg/ml BSA and 30% glycerol

Product Description	
Host	Mouse
Gene ID	5906
Gene Symbol	RAP1A
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 30002060).
Immunogen	Recombinant full-length human Rap1

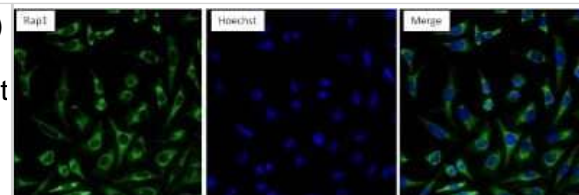
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1:500 - 1:1000, Immunohistochemistry 1:50 - 1:500, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation 2 ug, Immunohistochemistry-Paraffin 1:50 - 1:500, Proximity Ligation Assay
Application Notes	Use in Proximity Ligation Assay reported in scientific literature (PMID:30002060).

Images

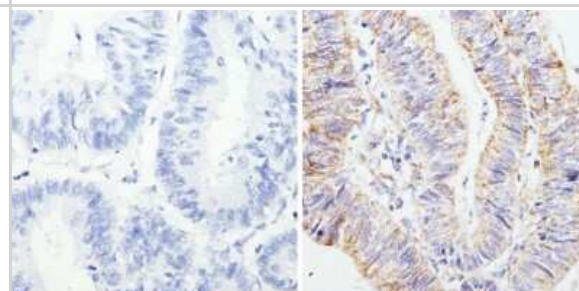
Western Blot: RAP1A Antibody (1D4-1A3) [NBP2-22527] - Analysis of 25 ug of various whole cell lysate per well.



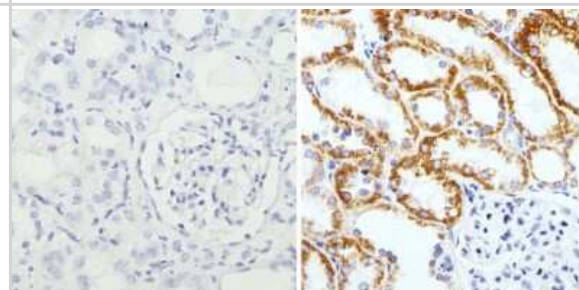
Immunocytochemistry/Immunofluorescence: RAP1A Antibody (1D4-1A3) [NBP2-22527] - Analysis of Rap1 (green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% BSA/TBST for 15 minutes at room temperature. Cells were probed with a Rap1 monoclonal antibody at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488-conjugated goat anti-mouse IgG secondary antibody at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye.



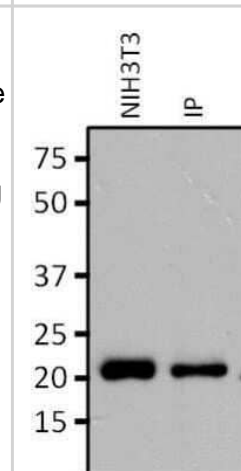
Immunohistochemistry-Paraffin: RAP1A Antibody (1D4-1A3) [NBP2-22527] - Analysis showing staining in the cytoplasm and membrane of human colon carcinoma (right) compared to a negative control without primary antibody (left).



Immunohistochemistry-Paraffin: RAP1A Antibody (1D4-1A3) [NBP2-22527] - Analysis showing staining in the cytoplasm and membrane of human kidney tissue (right) compared to a negative control without primary antibody (left).



Immunoprecipitation: RAP1A Antibody (1D4-1A3) [NBP2-22527] - Analysis of Rap1 was performed on NIH3T3 cells. Antigen-antibody complexes were formed by incubating 750ug of NIH3T3 whole cell lysate with 2ug of a Rap1 monoclonal antibody overnight on a rocking platform at 4C. The immune complexes were captured on 50ul Protein A/G Plus Agarose, washed extensively, and eluted with 5X Lane Marker Reducing Sample Buffer. Eluted sample (right lane) and 25ug of NIH3T3 control lysate (left lane) were resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membrane, and blocked with 5% BSA/TBS-0.1%Tween for at least 1 hour. The membrane was probed with a Rap1 monoclonal antibody at a dilution of 1:500 overnight rotating at 4C, washed in TBST, and probed with Clean-Blot IP Detection Reagent at a dilution of 1:2500 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura.



Publications

Wang S, Wang D, Chang Y et al. Elevated RAP1A expression correlates with the severity of acute GVHD after umbilical cord blood transplantation Transplant Immunology 2022-01-01 [PMID: 35114361] (WB, Human)

Stott JB, Barrese V, Suresh M et al. Investigating the role of G beta gamma in Kv7 dependent relaxations of the rat vasculature Arterioscler Thromb Vasc Biol. 2018-09-13 [PMID: 30002060] (PLA, Rat)





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Products Related to NBP2-22527

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
NBP1-45263-0.05mg	Recombinant Human RAP1A His Protein

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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