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RAB38 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12126

Specification

RAB38 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P57729
Other Accession	NM_022337, NP_071732
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Chicken, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**24kDa KDa**

RAB38 antibody - N-terminal region - Additional Information

Gene ID 23682

Alias Symbol	**NY-MEL-1, rrGTPbp**

Other Names
Ras-related protein Rab-38, Melanoma antigen NY-MEL-1, RAB38

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-RAB38 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
RAB38 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

RAB38 antibody - N-terminal region - Protein Information

Name RAB38 (HGNC:9776)

Function
The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). RAB38 may be involved in melanosomal transport and docking. Involved in the proper sorting of TYRP1. Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with ANKRD27 and VAMP7 (By similarity). Plays a role in the maturation of phagosomes that engulf pathogens,

such as S.aureus and M.tuberculosis (PubMed:21255211). Plays an important role in the control of melanin production and melanosome biogenesis (PubMed:23084991). In concert with RAB32, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity).

Cellular Location
Cell membrane; Lipid-anchor; Cytoplasmic side. Melanosome. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Melanosome membrane Note=Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211). The BLOC-3 complex, a heterodimer of HPS1 and HPS4 promotes its membrane localization (PubMed:23084991)

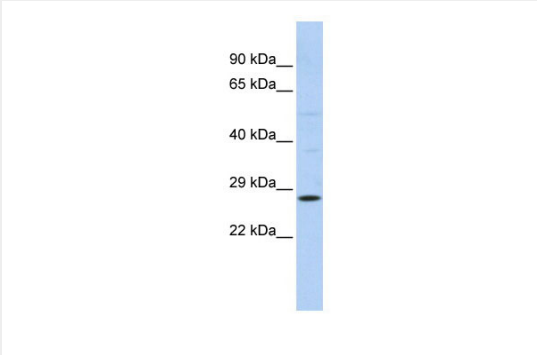
Tissue Location
Expressed in melanocytes.

RAB38 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RAB38 antibody - N-terminal region - Images



WB Suggested Anti-RAB38 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: MCF7 cell lysate

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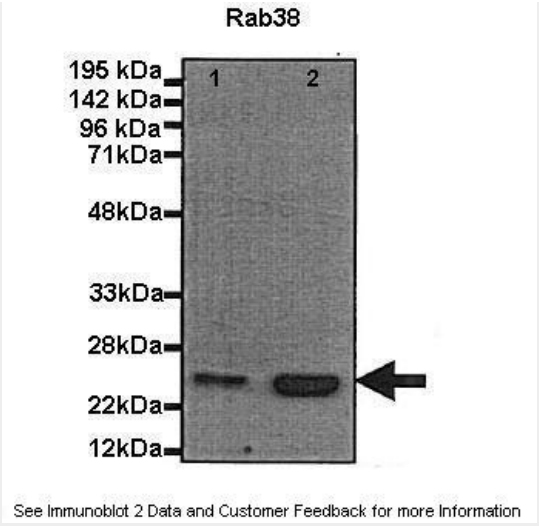

Human , Mouse

RAB38 antibody - N-terminal region - References

Wang,F.,(2008)Biochem.Biophys.Res.Commun.372(1),162-167ReconstitutionandStorage:Forshortterm use,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.