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RAP2A antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15052

Specification

RAP2A antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P10114
Other Accession	NM_021033, NP_066361
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Pig, Chicken, Sheep, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**20kDa KDa**

RAP2A antibody - N-terminal region - Additional Information

Gene ID 5911

Alias Symbol	**K-REV, KREV, RAP2, RbBP-30**

Other Names
Ras-related protein Rap-2a, RbBP-30, RAP2A

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-RAP2A 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
RAP2A antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

RAP2A antibody - N-terminal region - Protein Information

Name RAP2A (HGNC:9861)

Function
Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form (PubMed:14966141, PubMed:15342639, PubMed:16246175, PubMed:16540189, PubMed:18930710, PubMed:<a href="http://www.uniprot.org/citations/20159449"

target="_blank">20159449, PubMed:35293963). In its active form interacts with and regulates several effectors including MAP4K4, MINK1 and TNIK (PubMed:14966141, PubMed:15342639, PubMed:18930710, PubMed:20159449). Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development (PubMed:20159449). More generally, it is part of several signaling cascades and regulates cytoskeletal rearrangements, cell migration, cell adhesion and cell spreading (PubMed:14966141, PubMed:15342639, PubMed:16246175, PubMed:16540189, PubMed:18930710, PubMed:20159449, PubMed:35293963).

Cellular Location
Midbody. Cell projection, lamellipodium membrane. Golgi apparatus. Recycling endosome membrane; Lipid-anchor; Cytoplasmic side. Lysosome. Note=Localized to the Golgi (PubMed:35293963, PubMed:7962206). May also localize to the gelatinase- containing granules of neutrophils (PubMed:8391995). Colocalized with RASGEF1B to midbody at telophase (PubMed:23894443). Localized predominantly to the plasma membrane, where it is enriched at lamellipodia ruffles (PubMed:35293963). Cycles between the lamellipodia plasma membrane and endosomes when ubiquitinated by the ECS(RAB40B) complex (PubMed:35293963). Without the ubiquitin signal, sorted to lysosomes for degradation (PubMed:35293963)

RAP2A 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

RAP2A antibody - N-terminal region - Images

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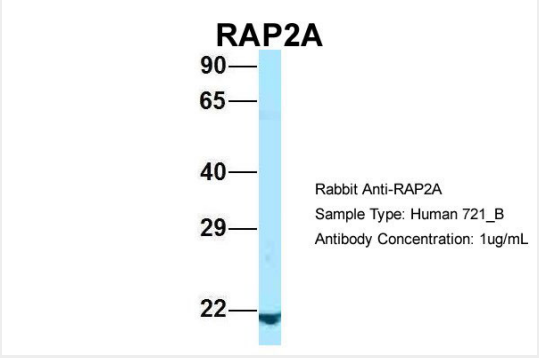

Host:Rabbit
Target Name:RAP2A
Sample Tissue:721_B
Antibody Dilution: 1.0µg/mlRAP2A is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells

RAP2A antibody - N-terminal region - References

Pizon V.,et al.Oncogene 3:201-204(1988).
Fan Z.S.,et al.Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
Puhl H.L. III,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham A.,et al.Nature 428:522-528(2004).