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RAP2A antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15052

Product Information

Application	WB
Primary Accession	P10114
Other Accession	NM_021033, NP_066361
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Pig, Chicken, Dog, Horse, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20615

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.

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: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).

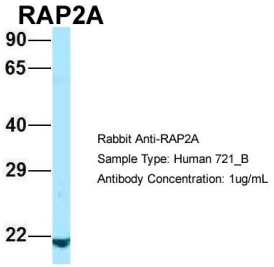
Cellular Location

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)

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).

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.