

RP2 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13992

Product Information

Application	WB, IHC
Primary Accession	O75695
Other Accession	NM_006003 , NP_008846
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rabbit, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39641

Additional Information

Gene ID	6102
Alias Symbol Other Names	KIAA0215, TBCCD2, XRP2, NME10, DELXp11.3 Protein XRP2, RP2
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-RP2 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	RP2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RP2
Function	Acts as a GTPase-activating protein (GAP) involved in trafficking between the Golgi and the ciliary membrane. Involved in localization of proteins, such as NPHP3, to the cilium membrane by inducing hydrolysis of GTP ARL3, leading to the release of UNC119 (or UNC119B). Acts as a GTPase-activating protein (GAP) for tubulin in concert with tubulin-specific chaperone C, but does not enhance tubulin heterodimerization. Acts as a guanine nucleotide dissociation inhibitor towards ADP-ribosylation factor-like proteins.
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, cilium. Note=Detected predominantly at the plasma membrane of rod and cone photoreceptors. Not detected in the nucleus.

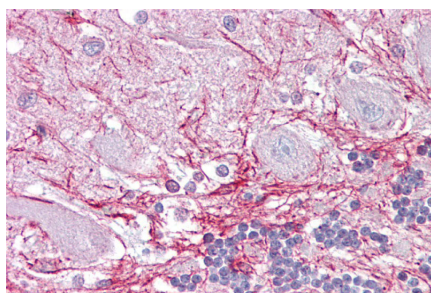
Tissue Location

Ubiquitous. Expressed in the rod and cone photoreceptors, extending from the tips of the outer segment (OS) through the inner segment (IS) and outer nuclear layer (ONL) and into the synaptic terminals of the outer plexiform layer (ONL). Also detected in the bipolar, horizontal and amacrine cells in the inner nuclear layer (INL), extending to the inner plexiform layer (IPL) and through the ganglion cell layer (GCL) and into the nerve fiber layer (NFL) (at protein level).

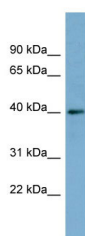
References

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Ross M.T., et al. Nature 434:325-337(2005).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).
Chapple J.P., et al. Hum. Mol. Genet. 9:1919-1926(2000).
Bartolini F., et al. J. Biol. Chem. 277:14629-14634(2002).

Images



Immunohistochemistry with Brain, cerebellum tissue at an antibody concentration of 5µg/ml using anti-RP2 antibody (AI13992)



WB Suggested Anti-RP2 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:1562500
Positive Control: Human Muscle

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