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RP2 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13992

Specification

RP2 antibody - middle region - Product Information

Application	**IHC, WB**
Primary Accession	O75695
Other Accession	NM_006003, NP_008846
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rabbit, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**40kDa KDa**

RP2 antibody - middle region - Additional Information

Gene ID 6102

Alias Symbol	**KIAA0215, TBCCD2, XRP2, NME10, DELXp11.3**

Other Names
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.

RP2 antibody - middle region - 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.

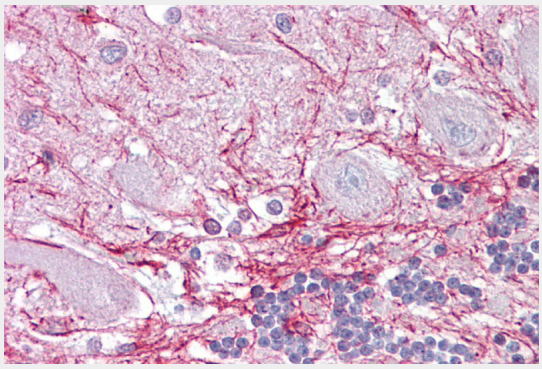
Tissue Location
Ubiquitous. Expressed in the rod and cone photoreceptors, extending from the tips of the outer segment (OS) through the inner segment (IS) and outer nuclear layer (ONL) and into the synaptic terminals of the outer plexiform layer (ONL). Also detected in the bipolar, horizontal and amacrine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

RP2 antibody - middle region - Protocols

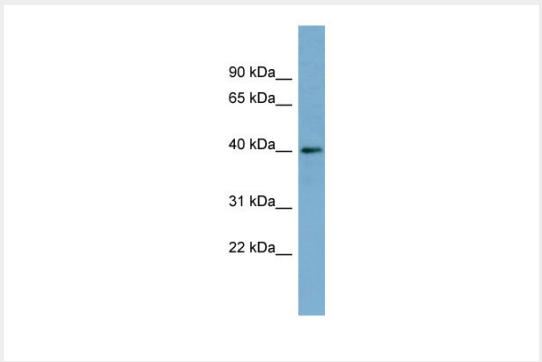
Provided below are standard protocols that you may find useful for product applications.

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

RP2 antibody - middle region - 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

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ELISA Titer: 1:1562500
Positive Control: Human Muscle

RP2 antibody - middle region - References

Schwahn U.,et al.Nat. Genet. 19:327-332(1998).
Ross M.T.,et al.Nature 434:325-337(2005).
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Bartolini F.,et al.J. Biol. Chem. 277:14629-14634(2002).