RPGR mouse mAb

Catalog No	YP-mAb-18041
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	RPGR RP3 XLRP3
Immunogen	Synthesized peptide derived from human RPGR
Specificity	This antibody detects endogenous levels of RPGR at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RP3;X linked retinitis pigmentosa GTPase regulator;X-linked retinitis pigmentosa GTPase regulator;XLRP3;RPGR;RPGR RP3 XLRP3
Observed Band	100-105 kDa, 70 kDa
Calculated Molecular Weight	113 kDa
Cell Pathway	Cytoplasm, cytoskeleton, flagellum axoneme . Golgi apparatus . Cell projection, cilium . In the retinal photoreceptor cell layer, localizes at the connecting cilium (By similarity). Colocalizes with WHRN in the photoreceptor connecting cilium (By similarity). Colocalizes with CEP290 in the photoreceptor connecting cilium (By similarity). Colocalizes with RPGRIP1 in the photoreceptor connecting cilium (By similarity). .; [Isoform 6]: Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, cilium axoneme.
Tissue Specificity	Heart, brain, placenta, lung, liver, muscle, kidney, retina, pancreas and fetal retinal pigment epithelium. Isoform 3 is found only in the retina. Colocalizes with RPGRIP1 in the outer segment of rod photoreceptors and cone outer segments.
Function	Could be a guanine-nucleotide releasing factor. Plays a role in ciliogenesis. Probably regulates cilia formation by regulating actin stress filaments and cell contractility. Plays an important role in photoreceptor integrity. May play a critical

	role in spermatogenesis and in intraflagellar transport processes (By similarity). May be involved in microtubule organization and regulation of transport in primary cilia.
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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