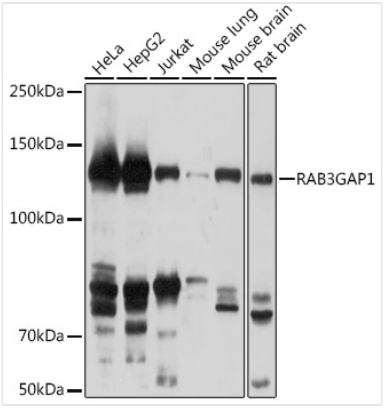
# RAB3GAP1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | RAB3GAP1, Polyclonal Antibody |
| **Full Product Name** | RAB3GAP1 Rabbit pAb |
| **Product Gene Name** | anti-RAB3GAP1 antibody |
| **Product Synonym Names** | P130; RAB3GAP; RAB3GAP130; WARBM1; RAB3GAP1 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |
| **Purity/Purification** | Affinity purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 110,524 Da |
| **Chromosome Location** | Chromosome: 2; NC_000002.11 (135809835..135928280). Location: 2q21.3 |
| **OMIM** | 600118 |
| **3D Structure** | ModBase 3D Structure for Q15042 |
| **Immunogen** | Recombinant protein of human RAB3GAP1. |
| **Positive Samples** | HeLa, HepG2, Jurkat, Mouse lung, Mouse brain, Rat brain |
| **Product Categories/Family for anti-RAB3GAP1 antibody** | Signal Transduction; G protein signaling; Small G proteins |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-RAB3GAP1 antibody** | Western Blot (WB) |
| **Application Notes for anti-RAB3GAP1 antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-RAB3GAP1 antibody** | MBS9143441 is an antibody targeting RAB3GAP1. Also known as RAB3GAP1 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-RAB3GAP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-RAB3GAP1 antibody**
Western blot analysis of extracts of various cell lines, using RAB3GAP1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3min.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB3GAP1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 55743118 |
| **NCBI GeneID** | 22930 |
| **NCBI Accession #** | NP_036365.1 |
| **UniProt Primary Accession #** | Q15042 |
| **UniProt Secondary Accession #** | Q659F5; Q8TBB4 |
| **UniProt Related Accession #** | Q15042 |
| **GenBank Nucleotide #** | NM_012233.2 |
| **NCBI Official Full Name** | rab3 GTPase-activating protein catalytic subunit isoform 2 |
| **NCBI Official Synonym Full Names** | RAB3 GTPase activating protein subunit 1 (catalytic) |
| **NCBI Official Symbol** | RAB3GAP1 |
| **NCBI Official Synonym Symbols** | P130; WARBM1; RAB3GAP; RAB3GAP130 |
| **UniProt Protein Name** | Rab3 GTPase-activating protein catalytic subunit |
| **UniProt Synonym Protein Names** | RAB3 GTPase-activating protein 130 kDa subunit; Rab3-GAP p130 |
| **Protein Family** | Rab3 GTPase-activating protein |
| **UniProt Gene Name** | RAB3GAP1 |
| **UniProt Synonym Gene Names** | KIAA0066; RAB3GAP; Rab3-GAP |
| **UniProt Entry Name** | RB3GP_HUMAN |
| **NCBI Protein Information** | rab3 GTPase-activating protein catalytic subunit; rab3-GAP p130; RAB3 GTPase-activating protein 130 kDa subunit |
| **NCBI Summary for RAB3GAP1** | This gene encodes the catalytic subunit of a Rab GTPase activating protein. The encoded protein forms a heterodimer with a non-catalytic subunit to specifically regulate the activity of members of the Rab3 subfamily of small G proteins. This protein mediates the hydrolysis of GTP bound Rab3 to the GDP bound form. Mutations in this gene are associated with Warburg micro syndrome. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010] |

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| **UniProt Comments for RAB3GAP1** | RAB3GAP1: Probable catalytic subunit of a GTPase activating protein that has specificity for Rab3 subfamily (RAB3A, RAB3B, RAB3C and RAB3D). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones. Specifically converts active Rab3-GTP to the inactive form Rab3-GDP. Required for normal eye and brain development. May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters. Defects in RAB3GAP1 are the cause of Warburg micro syndrome type 1 (WARBM1). A rare syndrome characterized by microcephaly, microphthalmia, microcornia, congenital cataracts, optic atrophy, cortical dysplasia, in particular corpus callosum hypoplasia, severe mental retardation, spastic diplegia, and hypogonadism. Belongs to the Rab3-GAP catalytic subunit family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Chromosomal Location of Human Ortholog: 2q21.3<br><br>Cellular Component: protein complex; cytoplasm<br><br>Molecular Function: Rab guanyl-nucleotide exchange factor activity; Rab GTPase binding<br><br>Biological Process: regulation of GTPase activity; hypothalamus development; camera-type eye development; brain development; regulation of short-term neuronal synaptic plasticity; regulation of excitatory postsynaptic membrane potential<br><br>Disease: Warburg Micro Syndrome 1 |
| **Research Articles on RAB3GAP1** | **1.** Micro syndrome has been associated with causative mutations in three disease genes: RAB3GAP1, RAB3GAP2 and RAB18. Martsolf syndrome has been associated with a mutation in RAB3GAP2.[Review] |
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