



Rab 3 GAP p130 Polyclonal Antibody

Catalog No	YP-Ab-16194
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	RAB3GAP1
Protein Name	Rab3 GTPase-activating protein catalytic subunit
Immunogen	The antiserum was produced against synthesized peptide derived from human RAB3GAP1. AA range:538-587
Specificity	Rab 3 GAP p130 Polyclonal Antibody detects endogenous levels of Rab 3 GAP p130 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RAB3GAP1; KIAA0066; RAB3GAP; Rab3 GTPase-activating protein catalytic subunit; RAB3 GTPase-activating protein 130 kDa subunit; Rab3-GAP p130; Rab3-GAP
Observed Band	117kD
Cell Pathway	Cytoplasm . In neurons, it is enriched in the synaptic soluble fraction.
Tissue Specificity	Ubiquitous.
Function	disease:Defects in RAB3GAP1 are the cause of Warburg micro syndrome 1 (WARBM1) [MIM:600118]. WARBM1 is a severe autosomal recessive disorder characterized by developmental abnormalities of the eye and central nervous system and by microgenitalia.,function: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.,similarity:Belongs to the Rab3-GAP catalytic subunit family.,subcellular location:In neurons, it is enriched in the synaptic so



Background

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],

matters needing attention

Avoid repeated freezing and thawing!

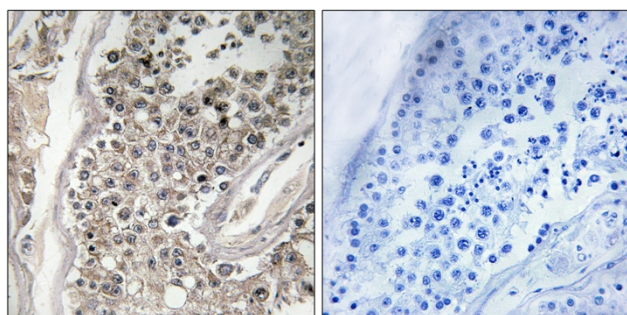
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

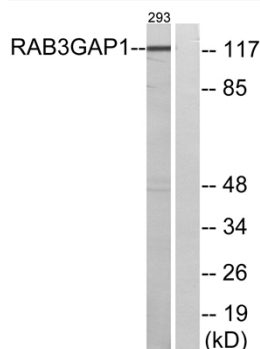
Products Images



Western Blot analysis of various cells using Rab 3 GAP p130 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human testis tissue, using RAB3GAP1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using RAB3GAP1 Antibody. The lane on the right is blocked with the synthesized peptide.