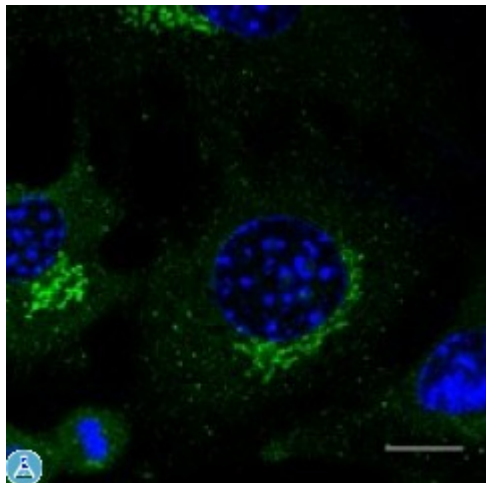


Anti-Rab3 antibody



Description

Goat polyclonal antibody to mouse Rab3. Rab3 belongs to the small GTPase superfamily, Rab family. Rab3 is involved in exocytosis by regulating a late step in synaptic vesicle fusion. Could play a role in neurotransmitter release by regulating membrane flow in the nerve terminal.

Model

STJ140058

Host

Goat

Reactivity

Avian, Bovine, Canine, Donkey, Feline, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Other, Porcine, Rabbit, Rat, Sheep, Simian

Applications

IF, IHC, WB

Immunogen

Purified recombinant peptides derived from within residues 110 aa to the C-terminus of mouse Rab3a produced in E. coli.

Immunogen Region

C-Term

Gene ID

[22930](#)

Gene Symbol

[RAB3GAP1](#)

Dilution range

Western blot 1:250-1:1,000 Immunofluorescence 1:50-1:250
Immunohistochemistry (paraffin) 1:250-1:1,500 Immunohistochemistry (frozen) 1:250-1:1,500

Specificity

Detects total Rab3 protein in the following human, rat and mouse whole cell lysates and transfected cells with GFP-Rab3a, GFP-Rab3b, and GFP-Rab3c cds by Western blot.

Tissue Specificity

Ubiquitous.

Purification	This antibody is epitope-affinity purified from goat antiserum.
Note	For research use only (RUO).
Protein Name	Rab3 GTPase-activating protein catalytic subunit (RAB3 GTPase-activating protein 130 kDa subunit) (Rab3-GAP p130) (Rab3-GAP)
Molecular Weight	111 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS, 20% glycerol and 0.05% sodium azide.
Concentration	2 mg/mL
Storage Instruction	Store at -20°, and avoid repeated freeze-thaw cycles.
Database Links	HGNC:17063 OMIM:600118
Alternative Names	Rab3 GTPase-activating protein catalytic subunit (RAB3 GTPase-activating protein 130 kDa subunit) (Rab3-GAP p130) (Rab3-GAP)
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.
Cellular Localization	Cytoplasm. In neurons, it is enriched in the synaptic soluble fraction.