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Datasheet for 612-401-E20

Rab3 Antibody

Overview

Description:	Anti-Rab 3 (RABBIT) Antibody - 612-401-E20
Item No.:	612-401-E20
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	Rab 3 Antibody detects Rab 3 which belongs to the Ras small GTPase superfamily. The GTP-binding Rab3 subfamily has 4 known isoforms: 3A, 3B, 3C, and 3D. These proteins are expressed in highest concentrations in brain and endocrine tissues and involved in regulated exocytosis of hormones and neurotransmitters. Specifically, Rab3's are thought to play a key role in presynaptic vesicle trafficking and priming.
Synonyms:	Ras-related protein Rab-3A, Rab3a
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Rab3a
Reactivity:	Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Rab 3 Antibody was produced in rabbit by repeated immunizations with synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Purity/Specificity:	Anti-Rab 3 antibodies was affinity purified from monospecific antiserum by immunoaffinity purification. This antibody is directed against rat Rab3 proteins. Cross reactivity with Rab 3 from other species has not been determined, however, the sequence of the immunogen shows 100% identity to human, mouse, Xenopus and non-human primates, therefore cross reactivity is expected.
Relevant Links:	• UniProtKB - P63012 • GeneID - 25531 • NCBI - NP_037150.2

Application Details

Tested Applications:	WB
Application Note:	Anti-Rab 3 (Rabbit) antibody is tested for use in Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 27 kDa in size corresponding to Rab3 protein in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

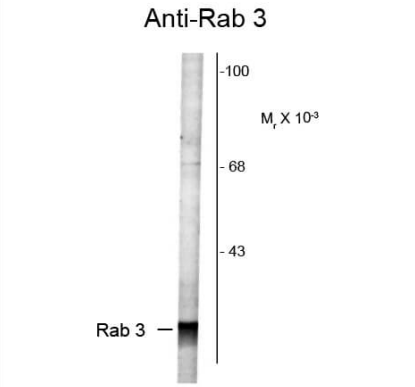
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of rat cortex lysate showing specific immunolabeling of the ~27k Rab 3 protein.

Western Blot

Western Blot of Rabbit anti-Rab 3 antibody. Lane 1: rat cortex lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Rab 3 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 27 kDa for Rab 3. Other band (s): none.

Disclaimer

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