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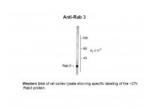
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Rab 3 Antibody

CATALOG NUMBER: 50-187

Background
BACKGROUND:



Western blot of rat cortex lysate showing specific labeling of the ~27k Rab3 protein.

SPECIES REACTIVITY: Human, Mouse, Rat, Xenopus TESTED APPLICATIONS: WB USER NOTE: Optimal dilutions for each application to be determined by the researcher. PREDICTED MOLECULAR WEIGHT: IMMUNOGEN: Peptide corresponding to amino acid residues from the N-terminal region of rat Rab 3, conjugated to keyhole limpet hemocyanin (KLH). HOST SPECIES: Rabbit Properties PURIFICATION: Affinity Purified PHYSICAL STATE: Liquid BUFFER: 100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol. STORAGE CONDITIONS: Rab 3 antibody can be stored at -20°C and is stable at -20°C for at least 1 year. CLONALITY: Polyclonal CONJUGATE: Unconjugated Additional Info ALTERNATE NAMES: RAB3 ACCESSION NO.: P63012 PROTEIN GI NO.: 51702793 OFFICIAL SYMBOL: Rab3a GENE ID: 25531		
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OFFICIAL SYMBOL: Rab3a	ACCESSION NO.:	P63012
	PROTEIN GI NO.:	51702793
GENE ID: 25531	OFFICIAL SYMBOL:	Rab3a
	GENE ID:	25531

Rab proteins belong to the Ras small GTPase superfamily. The GTP-binding Rab3 subfamily has 4 known isoforms: 3A, 3B, 3C, and 3D (Schluter et al., 2004). These proteins are expressed in highest concentrations in

	brain and endocrine tissues and involved in regulated exocytosis of hormones and neurotransmitters (Coppola et al., 2002). Specifically, Rab3's are thought to play a key role in presynaptic vesicle trafficking and priming (Schluter et al., 2006).
REFERENCES:	1) Schluter OM, Schmitz F, Jahn R, Rosenmund C, Sudhof TC (2004) A Complete Genetic Analysis of Neuronal Rab3 Function. J Neuroscience 24(29):6629-6637
	2) Schluter OM, Basu J, Sudhof TC, Rosenmund C (2006) Rab3 Superprimes Synaptic Vesicles for Release: Implications for Short-term Synaptic Plasticity. J Neuroscience 26(4):1239-1246
	3) Coppola T, Perret-Menoud V, Gattesco S, Magnin S, Pombo I, Blank U, Regazzi R (2002) The death domain of Rab3 guanine nucleotide exchange protein in GDP/GTP exchange activity in living cells. J Biochem 362 (Pt.2):273-9.

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