507 store at -20C

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KIF3A (D7G3) Rabbit mAb Image: Cell Signaling Technology Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y496	Entrez-Gene Id: 11127
Product Usage Information Storage	5	Application Western Blotting Immunoprecipitation		5) 150 mM NaCl 100 ug	Dilution 1:1000 1:200	rol and less than
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		KIF3A (D7G3) Rabbit mAb recognizes endogenous levels of total KIF3A protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human KIF3A protein.				
Background		intracellular transport nucleic acids). The inti cellular functions, incl neurotransmitter rele have been linked with brain function such as Kinesin superfamily p KIF3A and its paralog directed microtubule protein 3 (KAP3), whic studies in a variety of including KIF3A, in the	c of membrane-bou racellular transport uding mitotic and r ase, and differentia a variety of pathol s learning and mem rotein 3A (KIF3A) is KIF3B bind to form sliding activity (8). T th facilitates binding model organisms h e formation and fur	olecular motors that dri nd organelles and other functions of KIFs are fun meiotic division, motility, ition (1-4). Disruptions to ogies, ranging from tur nory (4-6). a central component of a heterodimeric motor he tail domain of this he g of the KIF3A/3B motor nave demonstrated a critic function of cilia (9). Notably hat function to transduc	r macromolecules (e ndamentally import /migration, hormon o KIF-mediated intra norigenesis to defec the kinesin-2 protei protein with ATP-de eterodimer binds to protein to its cargo tical role for kinesin y, KIF3A was shown	e.g., proteins, ant for a variety of e and cellular transport ts in higher order n complex (7). pendent, plus-end- kinesin-associated (7,8). Recent -family proteins, to mediate cilia-
Background R	eferences	1. Hirokawa, N. et al. (2. Yu, Y. and Feng, Y.M 3. Park, J.J. et al. (2008 4. Hirokawa, N. et al. (5. Yoshimura, Y. et al. 6. Hirokawa, N. and N 7. Haraguchi, K. et al. 8. Yamazaki, H. et al. (9. Zhao, C. et al. (2012 10. Humke, E.W. et al.	1. (2010) Cancer 116) Mol Endocrinol 22 2010) Neuron 68, 6 (2010) Mol Cell Biol oda, Y. (2008) Physi (2006) J Biol Chem 2 1995) J Cell Biol 130 Proc Natl Acad Sc	5, 5150-60. 2, 989-1005. 10-38. 730, 2206-19. <i>iol Rev</i> 88, 1089-118. 281, 4094-9. 9, 1387-99. <i>i U S A</i> 109, 2388-93.		
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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