e at -20C	Rab9 (D22A6) Rabbit mAb	H.	Cell Signaling		
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For Research Use Oni	y. Not for use in Diagnostic Procedure	s.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #P51151	Entrez-Gene Id: 9367		
Product Usage Information	•	plication			Dilution			
		estern Blotting munoprecipitation			1:1000 1:50			
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 aliguot the antibody.						
Specificity / Sens	sitivity Rat	Rab9 (D22A6) Rabbit mAb detects endogenous levels of total Rab9 protein.						
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human Rab9 protein.						
Background		Rab7 and Rab9 are members of the Ras superfamily of small Rab GTPases (1). Both proteins are located in late endosomes, but exert different functions. Rab7 associates with the RIPL effector protein to control membrane trafficking from early to late endosomes and to lysosomes (2,3). Rab7 also helps to regulate growth receptor endocytic trafficking and degradation (3,4), and maturation of phagosome and autophagic vacuoles (4-6). Rab9 interacts with its effector proteins p40 and TIP47 (7,8) to promote the MPR (mannose 6-phosphate receptor)-associated lysosomal enzyme transport between late endosomes and the trans Golgi network (9,10).						
Background References		eng, Y. et al. (1995) Iéresse, S. et al. (19	J Cell Biol 131, 1 995) J Cell Sci 10 nr, S.J. (2006) J E) J Cell Sci 117, 4 999) EMBO J 18, J Cell Biol 138, 2 02) J Cell Biol 15 993) EMBO J 12	8 (Pt 11), 3349-58. Biol Chem 281, 1099-10 4837-48. 4394-403. 283-90. 6, 511-8. , 677-82.				
Species Reactivi	ty Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).		
Western Blot Buf		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	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity	X : X	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						
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Rab9 (D22A6) Rabbit mAb (#5133) Datasheet Without Images Cell Signaling Technology

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