

#4799 Store at -20C

RaIA (D6G8) Rabbit mAb


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	25	Rabbit IgG	#P11233	5898

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	RaIA (D6G8) Rabbit mAb detects endogenous levels of total RaIA protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala142 of human RaIA protein.	
Background	RaIA and RaIB are members of the Ras family of small GTPases and are highly homologous in protein sequence. The functions of RaIA and RaIB are distinct yet overlapping. By binding to various effector proteins, RaIA and RaIB serve as important GTP sensors for exocytosis and membrane trafficking (1-3). RaIA is required for Ras-related tumorigenesis (4) and RaIB is important for tumor survival (5). In addition to tumor formation, RaI proteins also play a role in cancer cell migration and metastatic tumor invasion (6,7).	
Background References	<ol style="list-style-type: none"> Li, G. et al. (2007) <i>J Neurosci</i> 27, 190-202. van Dam, E.M. and Robinson, P.J. (2006) <i>Int J Biochem Cell Biol</i> 38, 1841-7. Camonis, J.H. and White, M.A. (2005) <i>Trends Cell Biol</i> 15, 327-32. Lim, K.H. et al. (2005) <i>Cancer Cell</i> 7, 533-45. Chien, Y. et al. (2006) <i>Cell</i> 127, 157-70. Oxford, G. et al. (2005) <i>Cancer Res</i> 65, 7111-20. Lim, K.H. et al. (2006) <i>Curr Biol</i> 16, 2385-94. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	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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