

20648

IQGAP1 (D8K4X) XP® Rabbit mAb



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

	leactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 195	Source/Isotype: Rabbit IgG	UniProt ID: #P46940	Entrez-Gene Id: 8826
Product Usage Information		Application Western Blotting Immunohistochemist Immunofluorescence	, ,	istry)		Dilution 1:1000 1:800 1:200
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		IQGAP1 (D8K4X) XP^{\otimes} Rabbit mAb recognizes endogenous levels of total IQGAP1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human IQGAP1 protein.				
Background		protein interaction do chain, calmodulin, E-c bind the small GTPase by stabilizing their GT distribution of the IQC to interact with APC (4 polarization and migr in the invasiveness of primarily in liver (3), b testis (9,10). Research is known about the fu	mains and bind to adherin, and β-cates Rac1 and cdc42. P-bound (active) fo GAP proteins widely and the CLIP170 ation. Additional resome cancers (6-8) ut lower levels have studies have shownction of IQGAP3, I	in mediating cytoskelet a growing number of me enin (reviewed in 1). Thro QGAPs lack GAP activity ms (2,3). Research studi vary. IQGAP1 is ubiquit complex (5) in response search studies have sug IQGAP2, which is about the been detected in the p in that IQGAP2 displays to but this protein is preser oliferating cells (11), suggi	olecules including a ough their GAP-rela , however, and regi ies have shown tha ously expressed an to small GTPases, p gested that IQGAP t 60% identical to IO rostate, kidney, thy tumor suppressor p at in the lung, brain	actin, myosin light ted domains, they ulate small GTPases t the function and d has been found oromoting cell 1 could play a part QGAP1, is expressed roid, stomach, and oroperties (7). Less , small intestine,
Background Refere	ences	 Briggs, M.W. and Sacks, D.B. (2003) EMBO Rep 4, 571-4. Ho, Y.D. et al. (1999) J Biol Chem 274, 464-70. Brill, S. et al. (1996) Mol Cell Biol 16, 4869-78. Watanabe, T. et al. (2004) Dev Cell 7, 871-83. Fukata, M. et al. (2002) Cell 109, 873-85. Chew, C.S. et al. (2005) Am J Physiol Gastrointest Liver Physiol 288, G376-87. Jin, S.H. et al. (2008) Int J Cancer 122, 1040-6. Liu, Z. et al. (2010) Clin Cancer Res 16, 6009-18. Wang, S. et al. (2007) J Cell Sci 120, 567-77. Schmidt, V.A. et al. (2003) Blood 101, 3021-8. Nojima, H. et al. (2008) Nat Cell Biol 10, 971-8. 				
Species Reactivity		Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

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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

 $\textbf{W:} \ \textbf{Western Blotting IHC-P:} Immunohistochemistry (Paraffin) \textbf{IF-IC:} Immunofluorescence$

(Immunocytochemistry)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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