

**RASAL2 (D6K9L) 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:
W, IP	H	Endogenous	150	Rabbit IgG	#Q9UJF2	9462
<b>Product Usage Information</b>	<b>Application</b>					<b>Dilution</b>
	Western Blotting					1:1000
	Immunoprecipitation					1:50
<b>Storage</b>	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.					
<b>Specificity/Sensitivity</b>	RASAL2 (D6K9L) Rabbit mAb recognizes endogenous levels of total RASAL2 protein.					
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro69 of human RASAL2 protein.					
<b>Background</b>	<p>Small GTPases act as molecular switches, regulating processes such as cell migration, adhesion, proliferation and differentiation. They are activated by guanine nucleotide exchange factors (GEFs), which catalyze the exchange of bound GDP for GTP, and inhibited by GTPase activating proteins (GAPs), which catalyze the hydrolysis of GTP to GDP. RASAL2 was initially identified as a GAP for the small GTPase, Ras, and later shown to interact with the Rho-GEF ECT2, and to regulate Rho activity in human astrocytoma cells (1).</p> <p>Researchers have implicated RASAL2 as a suppressor of migration and metastasis in human cancer (2), and have shown that RASAL2 downregulation promotes epithelial-mesenchymal transition and metastasis in ovarian cancer (3) and lung cancer (4). Conversely, other research studies show that RASAL2 can be oncogenic in triple negative breast cancer through activation of Rac1 signaling (5).</p>					
<b>Background References</b>	<ol style="list-style-type: none"> <li>Weeks, A. et al. (2012) <i>Am J Pathol</i> 181, 662-74.</li> <li>McLaughlin, S.K. et al. (2013) <i>Cancer Cell</i> 24, 365-78.</li> <li>Huang, Y. et al. (2014) <i>Oncotarget</i> 5, 6734-45.</li> <li>Li, N. and Li, S. (2014) <i>Biochem Biophys Res Commun</i> 455, 358-62.</li> <li>Feng, M. et al. (2014) <i>J Clin Invest</i> 124, 5291-304.</li> </ol>					

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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