

#8446 Store at -20°C

## R-Ras Antibody



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TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H Mk	Endogenous	24	Rabbit	#P10301	6237

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	R-Ras Antibody recognizes endogenous levels of total R-Ras protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human R-Ras protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	R-Ras, a member of the small GTPase family, is homologous to H-, K- and N-Ras, but does not activate MAP kinase pathways and is only weakly oncogenic (1). Instead, R-Ras is engaged in integrin activation (2). The effector loop and the carboxy-terminal proline-rich and prenylation sites of R-Ras are critical for integrin activation (3,4). Phosphorylation by EphB2 receptor tyrosine kinase and Src at Tyr66 of R-Ras suppresses integrin activity (5,6).	
Background References	<ol style="list-style-type: none"> <li>Self, A. J. et al. (2001) <i>J. Cell Sci.</i> 114, 1357-1366.</li> <li>Zhang, Z. et al. (1996) <i>Cell</i> 85, 61-69.</li> <li>Oertli, B. et al. (2000) <i>Oncogene</i> 19, 4961-4969.</li> <li>Wang, B. et al. (2000) <i>J Biol Chem</i> 275, 5222-7.</li> <li>Zou, J.X. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 13813-8.</li> <li>Zou, J.X. et al. (2002) <i>J Biol Chem</i> 277, 1824-7.</li> </ol>	

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
Cross-Reactivity Key	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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