

#8446 Store at -20C

## R-Ras Antibody



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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 Mk	Endogenous	24	Rabbit	#P10301	6237

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
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

1. Self, A. J. et al. (2001) *J. Cell Sci.* 114, 1357-1366.
2. Zhang, Z. et al. (1996) *Cell* 85, 61-69.
3. Oertli, B. et al. (2000) *Oncogene* 19, 4961-4969.
4. Wang, B. et al. (2000) *J Biol Chem* 275, 5222-7.
5. Zou, J.X. et al. (1999) *Proc Natl Acad Sci U S A* 96, 13813-8.
6. Zou, J.X. et al. (2002) *J Biol Chem* 277, 1824-7.

### 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

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** Human **Mk:** Monkey

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