

#3526 Store at -20C

RalA Antibody


Cell Signaling
TECHNOLOGY®

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

Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 25	Source: Rabbit	UniProt ID: #P11233	Entrez-Gene Id: 5898
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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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

RalA Antibody detects endogenous levels of total human RalA protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala142 of human RalA. Antibodies are purified by peptide affinity chromatography.

Background

RalA and RalB are members of the Ras family of small GTPases and are highly homologous in protein sequence. The functions of RalA and RalB are distinct yet overlapping. By binding to various effector proteins, RalA and RalB serve as important GTP sensors for exocytosis and membrane trafficking (1-3). RalA is required for Ras-related tumorigenesis (4) and RalB is important for tumor survival (5). In addition to tumor formation, Ral proteins also play a role in cancer cell migration and metastatic tumor invasion (6,7).

Background References

1. Li, G. et al. (2007) *J Neurosci* 27, 190-202.
2. van Dam, E.M. and Robinson, P.J. (2006) *Int J Biochem Cell Biol* 38, 1841-7.
3. Camonis, J.H. and White, M.A. (2005) *Trends Cell Biol* 15, 327-32.
4. Lim, K.H. et al. (2005) *Cancer Cell* 7, 533-45.
5. Chien, Y. et al. (2006) *Cell* 127, 157-70.
6. Oxford, G. et al. (2005) *Cancer Res* 65, 7111-20.
7. Lim, K.H. et al. (2006) *Curr Biol* 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 BSA, 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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