

#3523 Store at -20°C

RalB Antibody



✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #5899
Swiss-Prot Acc. #P11234

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, Mk	26 kDa	Rabbit**

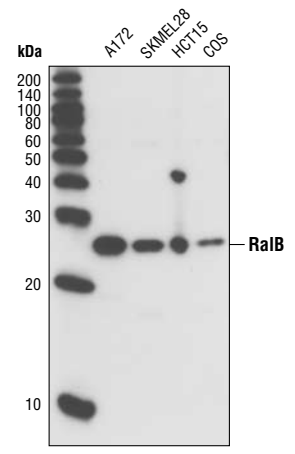
Background: RalA and RalB are members of the Ras family of small GTPases and are highly homologous in protein sequence. The functions of RalA and RalB are distinct yet overlapping. By binding to various effector proteins, RalA and RalB serve as important GTP sensors for exocytosis and membrane trafficking (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).

Specificity/Sensitivity: RalB Antibody detects endogenous levels of total RalB protein. The antibody might also react with overexpressed RalA protein.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Glu142 of human RalB protein. Antibodies are purified by peptide affinity chromatography.

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.



Western blot analysis of extracts from various cell types using RalB Antibody.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:
Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.