

#3526 Store at -20°C

# RalA Antibody



✓ 100 µl  
(10 Western mini-blot)

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignal.com  
**Support** ■ 877-678-TECH (8324)  
info@cellsignal.com  
**Web** ■ www.cellsignal.com

New 07/08

This product is for *in vitro* research use only and is not intended for use in humans or animals.  
This product is not intended for use as a therapeutic or in diagnostic procedures.

Applications W Endogenous	Species Cross-Reactivity* H, Mk	Molecular Wt. 25 kDa	Source Rabbit**
---------------------------------	------------------------------------	-------------------------	--------------------

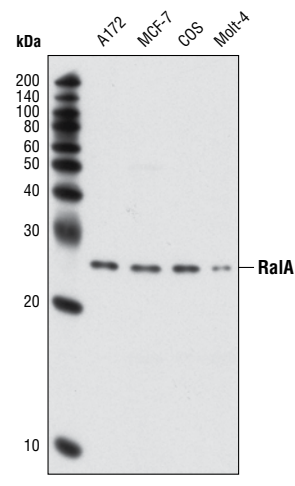
**Background:** RalA and RalB are members of the Ras family of small GTPases and are highly homologous in protein sequence. The functions of RalA and RalB are distinct yet overlapping. By binding to various effector proteins, RalA and RalB serve as important GTP sensors for exocytosis and membrane trafficking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

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Ala142 of human RalA. 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 lines using RalA Antibody.

Entrez-Gene ID #5898  
Swiss-Prot Acc. #P11233

**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.cellsignal.com](http://www.cellsignal.com).**

**Companion Products:**

- RalB Antibody #3523
- Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
- Anti-rabbit IgG, HRP-linked Antibody #7074
- Biotinylated Protein Ladder Detection Pack #7727
- Prestained Protein Marker, Broad Range (Premixed Format) #7720
- 20X LumiGLO® Reagent and 20X Peroxide #7003

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.**

**IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 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—zebra fish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.