

RalBP1 (I33) Antibody

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	95	Rabbit	#Q15311	10928

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

RalBP1 (I33) Antibody detects endogenous levels of total RalBP1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile33 of human RalBP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The RalA binding protein 1 (RalBP1 or RLIP76) was originally identified as a GTP-RalA associated protein that acted as a downstream RalA effector in regulating Ral-Ras signaling (1). RalBP1 interacts with RalA and the endocytosis protein REPS2 (POB1) through its carboxy-terminal Ral binding domain. RalBP1 has an intrinsic GTPase activating function and interacts with Cdc42 through its centrally located Rho-GAP domain (1-3). A protein complex containing RalBP1/POB1/RalA regulates endocytosis of membrane receptors (4). RalBP1 also functions as a non-ABC transporter that catalyzes the ATP-dependent transport of numerous xenobiotics, including glutathione conjugates and some chemotherapeutic agents. RalBP1 transporter activity may play an important role in detoxification, drug resistance and the stress response (5-7). Increased expression of RalBP1 protein is associated with some forms of cancer and regression of cancer xenografts results from RalBP1 inhibition (8,9). Evidence to date suggests that RalBP1 may be a promising therapeutic target for cancer therapy.

Background References

1. Cantor, S.B. et al. (1995) *Mol Cell Biol* 15, 4578-84.
2. Matsubara, K. et al. (1997) *FEBS Lett* 410, 169-74.
3. Ikeda, M. et al. (1998) *J Biol Chem* 273, 814-21.
4. Nakashima, S. et al. (1999) *EMBO J* 18, 3629-42.
5. Awasthi, Y.C. et al. (2007) *Curr Drug Metab* 8, 315-23.
6. Awasthi, S. et al. (2002) *Drug Metab Dispos* 30, 1300-10.
7. Awasthi, S. et al. (2008) *Clin Cancer Res* 14, 4372-7.
8. Hudson, M.E. et al. (2007) *Proc Natl Acad Sci USA* 104, 17494-9.
9. Singhal, S.S. et al. (2007) *Cancer Res* 67, 4382-9.

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

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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