

#12968 Store at -20°C

RAIG1 (D4S7D) XP® Rabbit mAb



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

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC	H	Endogenous	40-50	Rabbit	#Q8NFJ5	9052

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:800
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

RAIG1 (D4S7D) XP® Rabbit mAb recognizes endogenous levels of total RAIG1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val295 of human RAIG1 protein.

Background

Retinoic Acid-Induced Gene 1 (RAIG1), also called RAI3 and GPRC5A, belongs to the family of G protein-coupled receptors (GPCRs). GPCRs are the largest and most abundant receptor family in mammals, composed of more than one thousand members (1). Retinoic acids (RA) are a group of pleiotropic signaling molecules that regulate a broad range of physiologic and developmental processes. It is thought that RAIG1 may be a downstream target of RA signaling (2). RAIG1 is expressed in lung tissue and in several lung cancer cell lines, and encodes a seven-transmembrane glycoprotein presumed to be a lung tumor suppressor gene (3,4).

Background References

1. Jörissen, H. et al. (2009) *BMC Cancer* 9, 200.
2. Xu, J. et al. (2005) *Am J Respir Cell Mol Biol* 32, 381-7.
3. Veling, G. et al. (1992) *Kinderkrankenschwester* 11, 118-20.
4. Ye, X. et al. (2009) *Cancer Biol Ther* 8, 951-62.

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 **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry)

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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