

#97857 Store at -20C

**RAI2 (D4W9P) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	78	Rabbit IgG	#Q9Y5P3	10742

**Product Usage Information****Application**Western Blotting  
Immunoprecipitation**Dilution**1:1000  
1:50**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**

RAI2 (D4W9P) Rabbit mAb recognizes endogenous levels of total RAI2 protein.

**Species predicted to react based on 100% sequence homology:**

Mouse, Rat, Bovine, Pig

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg522 of human RAI2 protein.

**Background**

Retinoic acid-induced protein 2 (RAI2) is a 530 amino acid protein, encoded by the *RAI2* gene on XP22.3 (1). RAI2 contains a central, proline-rich domain that is hypothesized to play a role in protein-protein interactions, and is expressed in a variety of embryonic and adult tissues (2). Beyond that, little is known about the biological functions of RAI2. Notably, a 2015 research study reported that suppressing RAI2 led to increased hematogenous dissemination of breast cancer cells to bone marrow, suggesting that RAI2 may function to negatively regulate tumor metastasis (3).

**Background References**

- Walpole, S.M. et al. (1999) *Genomics* 55, 275-83.
- Jonk, L.J. et al. (1994) *Dev Biol* 161, 604-14.
- Werner, S. et al. (2015) *Cancer Discov* 5, 506-19.

**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**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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