Revision 1

Store at -20C

#70142

RALY Antibody

Cell Signaling TECHNOLOGY®

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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:
W	H Mk	Endogenous	38	Rabbit	#Q9UKM9	22913

Product Usage Information

Application	Dilution
Western Blotting	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

RALY Antibody recognizes endogenous levels of total RALY protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro163 of human RALY protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

RALY is a member of the large family of heterogeneous nuclear ribonucleoproteins (hnRNPs). RALY was initially discovered in lethal yellow mice, a condition where heterozygotes display an all yellow coat, obesity, diabetes, and tumors. In this condition, mRNA to the 5' untranslated region of RALY fuses to the agouti transcript (1,2). RALY binds to U-rich elements in coding and non-coding mRNAs undergoing translation (3). RALY has been implicated in certain cancer types, as it can control transcriptional regulation and splicing of E2F1 and PRMT1 mRNAs (4,5).

Background References

1. Michaud, E.J. et al. (1994) *Proc Natl Acad Sci U S A* 91, 2562-6.
2. Michaud, E.J. et al. (1993) *Genes Dev* 7, 1203-13.
3. Rossi, A. et al. (2017) *Nucleic Acids Res* 45, 6775-6792.
4. Bondy-Chorney, E. et al. (2017) *Int J Biochem Cell Biol* 91, 124-135.
5. Cornella, N. et al. (2017) *J Biol Chem* 292, 19674-19692.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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Limited Uses

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