

# RRAS2 Antibody

Catalog # ASC11622

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P62070</a>
<b>Other Accession</b>	<a href="#">NP_036382</a> , <a href="#">21361416</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	23400
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	RRAS2 antibody can be used for detection of RRAS2 by Western blot at 1 - 2 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	22800
<b>Other Names</b>	Ras-related protein R-Ras2, Ras-like protein TC21, Teratocarcinoma oncogene, RRAS2, TC21
<b>Target/Specificity</b>	RRAS2; Two isoforms of RRAS2 exists as a result of alternative splicing event.
<b>Reconstitution &amp; Storage</b>	RRAS2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
<b>Precautions</b>	RRAS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	RRAS2 ( <a href="#">HGNC:17271</a> )
<b>Synonyms</b>	TC21
<b>Function</b>	GTP-binding protein with GTPase activity, involved in the regulation of MAPK signaling pathway and thereby controlling multiple cellular processes (PubMed: <a href="#">31130282</a> , PubMed: <a href="#">31130285</a> , PubMed: <a href="#">39809765</a> ). Regulates craniofacial development (PubMed: <a href="#">31130282</a> , PubMed: <a href="#">31130285</a> ).
<b>Cellular Location</b>	Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid- anchor
<b>Tissue Location</b>	Ubiquitously present in all tissues examined, with the highest levels in heart, placenta, and skeletal muscle. Moderate levels in lung and liver; low levels in

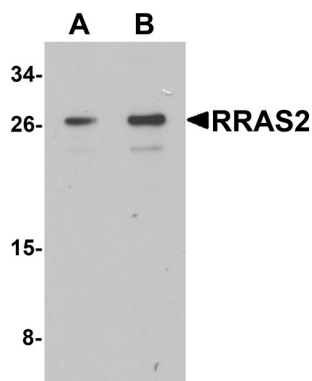
## Background

**RRAS2 Antibody:** Activating mutations and overexpression of classical Ras subfamily members (K-RAS, N-RAS and H-RAS) have been widely investigated as key events in the development of human cancers. The RRAS subfamily of Ras-related proteins includes RRAS1, RRAS2 (TC21) and RRAS3 (M-Ras) show overall amino acid identity with the classical Ras subfamily (H-Ras, K-Ras and N-Ras) of 55–60%. RRAS2 is a small GTPbinding protein of the Ras superfamily of GTPases. It might transduce growth inhibitory signals across the cell membrane, exerting its effect through an effector shared with the Ras proteins. RRAS2 has high oncogenic potential and overexpression/mutations have been reported in several tumor tissues and cell lines.

## References

- Ehrhardt A, Ehrhardt GR, Guo X, et al. Ras and relatives--job sharing and networking keep an old family together. *Exp. Hematol.* 2002; 30:1089-106.
- Lowe DG, Capon DJ, Delwart E, et al. Structure of the human and murine R-Ras genes, novel genes closely related to Ras proto-oncogenes. *Cell* 1987; 48:137-46
- Drivas GT, Shih A, Coutavas E, et al. Characterization of four novel Ras-like genes expressed in a human teratocarcinoma cell line. *Mol. Cell. Biol.* 1990;10:1793-8.
- Luo H, Hao X, Ge C, et al. TC21 promotes cell motility and metastasis by regulating the expression of E-cadherin and N-cadherin in hepatocellular carcinoma. *Int. J. Oncol.* 2010; 37:853-9

## Images



Western blot analysis of RRAS2 in Jurkat cell lysate with RRAS2 antibody at (A) 1 and (B) 2  $\mu$ g/mL

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.