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RRAS2 Antibody

Catalog # ASC11622

Product Information

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

Additional Information

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

Protein Information

Name	RRAS2 (HGNC:17271)
Synonyms	TC21
Function	GTP-binding protein with GTPase activity, involved in the regulation of MAPK signaling pathway and thereby controlling multiple cellular processes (PubMed:31130282, PubMed:31130285, PubMed:39809765). Regulates craniofacial development (PubMed:31130282, PubMed:31130285).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid- anchor
Tissue Location	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

brain, kidney, and pancreas

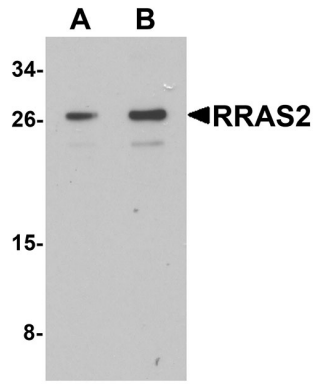
Background

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

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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 µg/mL

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