10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-RASAL Antibody

Peptide-affinity purified goat antibody

Catalog # AF1914a

Specification

Goat Anti-RASAL Antibody - Product Information

Application	**WB**
Primary Accession	O95294
Other Accession	NP_004649, 8437
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**90016**

Goat Anti-RASAL Antibody - Additional Information

Gene ID 8437

Other Names
RasGAP-activating-like protein 1, RASAL1, RASAL

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-RASAL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RASAL Antibody - Protein Information

Name RASAL1 (HGNC:9873)

Function
Probable inhibitory regulator of the Ras-cyclic AMP pathway (PubMed:9751798). Plays a role in dendrite formation by melanocytes (PubMed:23999003).

Tissue Location
Highly expressed in thyroid and adrenal medulla, lower expression in brain, spinal cord and

trachea (PubMed:9751798) Expressed in melanocytes (PubMed:23999003)

Goat Anti-RASAL Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-RASAL Antibody - Images



AF1914a (0.3 µg/ml) staining of Human Thyroid lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-RASAL Antibody - Background

The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. These proteins stimulate the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. This particular family member contains domains which are characteristic of the GAP1 subfamily of RasGAP proteins but, in contrast to the other GAP1 family members, this protein is strongly and selectively expressed in endocrine tissues. Alternatively spliced transcript variants that encode different isoforms have been described

Goat Anti-RASAL Antibody - References

Decreased expression of the RAS-GTPase activating protein RASAL1 is associated with colorectal tumor progression. Ohta M, et al. Gastroenterology, 2009 Jan. PMID 18992247.
Epigenetic silencing of a Ca(2+)-regulated Ras GTPase-activating protein RASAL defines a new mechanism of Ras activation in human cancers. Jin H, et al. Proc Natl Acad Sci U S A, 2007 Jul 24. PMID 17640920.

CAPRI and RASAL impose different modes of information processing on Ras due to contrasting temporal filtering of Ca2+. Liu Q, et al. J Cell Biol, 2005 Jul 18. PMID 16009725.
A genetic screen identifies PITX1 as a suppressor of RAS activity and tumorigenicity. Kolfschoten IG, et al. Cell, 2005 Jun 17. PMID 15960973.
The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.