

RGS22 Antibody

Catalog # ASC11532

Specification

RGS22 Antibody - Product Information

Application
Primary Accession
Other Accession
Reactivity

Host Clonality Isotype

Calculated MW

Application Notes

WB, IF <u>08NE09</u>

NP_056483, 158534077 Human, Mouse, Rat

Rabbit Polyclonal

IgG

139 kDa KDa

RGS22 antibody can be used for detection of RGS22 by Western blot at 1 - 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

RGS22 Antibody - Additional Information

Gene ID **26166**

Target/Specificity

RGS22; At least four isoforms of RGS22 are known to exist; this antibody will detect the three longest isoforms. RGS22 antibody is predicted to not cross-react with other RGS proteins

Reconstitution & Storage

RGS22 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

RGS22 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RGS22 Antibody - Protein Information

Name RGS22

Function

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form.

Cellular Location

Cytoplasm. Nucleus. Note=Expressed in the cytoplasm of spermatogonia and spermatocytes. In spermatids, also expressed in the nucleus

Tissue Location

Testis-specific. Expressed in Leydig cells and spermatogenic cells from the spermatogonia to spermatid stages (at protein level).

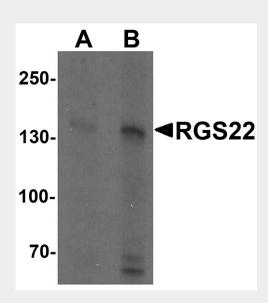


RGS22 Antibody - Protocols

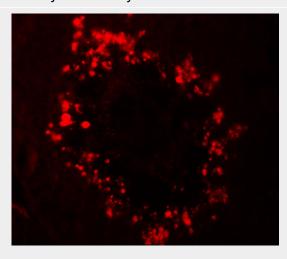
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

RGS22 Antibody - Images



Western blot analysis of RGS22 in Jurkat cell lysate with RGS22 antibody at (A) 1 and (B) 2 μ g/mL.



Immunofluorescence of RGS22 in human testis tissue with RGS22 antibody at 20 μg/mL.

RGS22 Antibody - Background

RGS22 Antibody: Regulator of G-protein signaling (RGS) proteins contain an 120 amino acid





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conserved domain, termed the RGS domain, that acts as a GTPase-activating protein that acts to reduce the signal transmitted by the receptor-activated G-alpha subunit. RGS22 is a recently identified member of this family that localizes to the testis and can interact with guanine nucleotide binding proteins alpha 11, 12, and 13 (GNA11, GNA12, and GNA13). While RGS22 has been postulated to play a role in spermiogenesis in the testis, it is also expressed in several cancer cell lines with an epithelial origin and associated with cancer metastasis. Its overexpression in a highly metastatic cancer causes a decrease in cell migration and a reduction of the invasive potential of the cells, suggesting that RGS22 may be a potential prognostic biomarker for metastasis.

RGS22 Antibody - References

De Vries L, Mousli M, Wurmser A, et al. GAIP, a protein that specifically interacts with the G protein G alpha i3, is a member of a protein family with a highly conserved core domain. Proc. Natl. Acad. Sci. USA 1995; 92:11916-20.

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