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

GPRC5A / RAI3 Antibody (Extracellular Domain)

Rabbit Polyclonal Antibody

Catalog # ALS10302

Specification

GPRC5A / RAI3 Antibody (Extracellular Domain) - Product Information

Application	**IHC-P, ICC**
Primary Accession	Q8NFJ5
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**40kDa KDa**
Dilution	**IHC-P~~N/A** **ICC~~N/A**

GPRC5A / RAI3 Antibody (Extracellular Domain) - Additional Information

Gene ID 9052

Other Names
Retinoic acid-induced protein 3, G-protein coupled receptor family C group 5 member A, Orphan G-protein-coupling receptor PEIG-1, Retinoic acid-induced gene 1 protein, RAIG-1, GPRC5A, GPCR5A, RAI3, RAIG1

Target/Specificity
Human GPRC5A / RAI3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
GPRC5A / RAI3 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

GPRC5A / RAI3 Antibody (Extracellular Domain) - Protein Information

Name GPRC5A

Synonyms GPCR5A, RAI3, RAIG1

Function
Orphan receptor. Could be involved in modulating differentiation and maintaining homeostasis of epithelial cells. This retinoic acid-inducible GPCR provide evidence for a possible interaction between retinoid and G-protein signaling pathways. Functions as a negative modulator of EGFR signaling (By similarity). May act as a lung tumor suppressor (PubMed:18000218).

Cellular Location
Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Note=Localized in perinuclear vesicles, probably Golgi- associated vesicles.

Tissue Location
Expressed at high level in fetal and adult lung tissues but repressed in most human lung cancers (PubMed:18000218, PubMed:9857033). Constitutively expressed in fetal kidney and adult placenta, kidney, prostate, testis, ovary, small intestine, colon, stomach, and spinal cord at low to moderate levels. Not detectable in fetal heart, brain, and liver and adult heart, brain, liver, skeletal muscle, pancreas, spleen, thymus, and peripheral leukocytes. According to PubMed:10783259, expressed at low but detectable level in pancreas and heart.

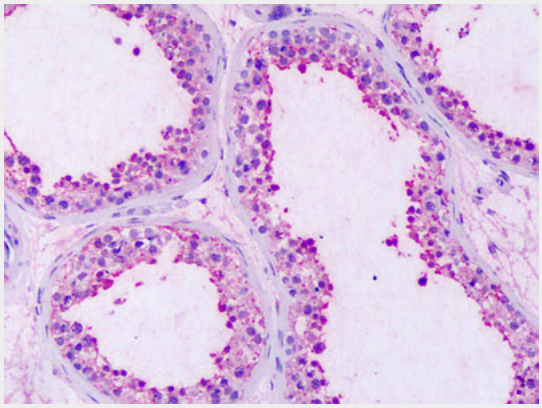
Volume
50 µl

GPRC5A / RAI3 Antibody (Extracellular Domain) - 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

GPRC5A / RAI3 Antibody (Extracellular Domain) - Images



Anti-GPRC5A / RAI3 antibody IHC of human testis.

GPRC5A / RAI3 Antibody (Extracellular Domain) - Background

Unknown. This G-protein coupled receptor could be involved in modulating differentiation and maintaining homeostasis of epithelial cells. The comparable expression level in fetal lung and kidney with adult tissues suggests a possible role in embryonic development and maturation of these organs. This retinoic acid-inducible GPCR provide evidence for a possible interaction between retinoid and G-protein signaling pathways.

GPRC5A / RAI3 Antibody (Extracellular Domain) - References

Cheng Y.,et al.J. Biol. Chem. 273:35008-35015(1998).
Cafferata E.G.,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Braeuner-Osborne H.,et al.Genomics 65:121-128(2000).