Product Name: RAI3 Rabbit Polyclonal Antibody
Catalog #: APRab16866
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight	40kDa

Antigen Information

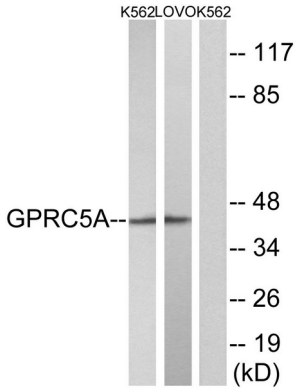
Gene Name	GPRC5A
Alternative Names	GPRC5A; GPCR5A; RAI3; RAIG1; Retinoic acid-induced protein 3; G-protein coupled receptor family C group 5 member A; Orphan G-protein-coupling receptor PEIG-1; Retinoic acid-induced gene 1 protein; RAIG-1
Gene ID	9052.0
SwissProt ID	Q8NFJ5
Immunogen	The antiserum was produced against synthesized peptide derived from human GPRC5A. AA range:140-189

Background

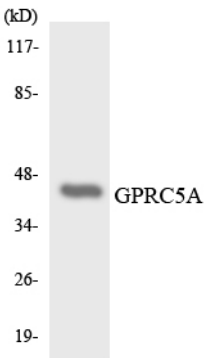
This gene encodes a member of the type 3 G protein-coupling receptor family, characterized by the signature 7-transmembrane domain motif. The encoded protein may be involved in interaction between retinoid acid and G protein signalling pathways. Retinoic acid plays a critical role in development, cellular growth, and differentiation. This gene may play a role in embryonic development and epithelial cell differentiation. [provided by RefSeq, Jul 2008],function: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.,induction:By all-trans retinoic acid (ATRA).,similarity:Belongs to the G-protein coupled receptor 3 family.,subcellular location:Localized in the plasma membrane and perinuclear vesicles.,tissue specificity:Expressed at high level in fetal and adult lung tissues. Constitutively expressed in fetal kidney and adult placenta, kidney, prostate, testis, ovary, small intestine, colon, stomach, and spinal chord 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.,

Research Area

Image Data



Western blot analysis of lysates from K562 and LOVO cells, using GPRC5A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using GPRC5A antibody.