



GPR40 Polyclonal Antibody

Catalog No	YP-Ab-13337
Isotype	IgG
Reactivity	Human;Monkey
Applications	WB;IF;ELISA
Gene Name	FFAR1
Immunogen	The antiserum was produced against synthesized peptide derived from human FFAR1. AA range:185-234
Specificity	GPR40 Polyclonal Antibody detects endogenous levels of GPR40 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GPR40;FFAR1;Free fatty acid receptor 1;G-protein coupled receptor 40
Observed Band	26kD
Calculated Molecular Weight	26kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Detected in brain and pancreas. Detected in pancreatic beta cells.
Function	function:Receptor for medium and long chain saturated and unsaturated fatty acids. Binding of the ligand increase intracellular calcium concentration and amplify glucose-stimulated insulin secretion. The activity of this receptor is mediated by G-proteins that activate phospholipase C. Seems to act through a G(q) and G(i)-mediated pathway.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed abundantly in pancreatic beta cells.,
Background	This gene encodes a member of the GP40 family of G protein-coupled receptors that are clustered together on chromosome 19. The encoded protein is a receptor for medium and long chain free fatty acids and may be involved in the

metabolic regulation of insulin secretion. Polymorphisms in this gene may be associated with type 2 diabetes. [provided by RefSeq, Apr 2009],

matters needing attention

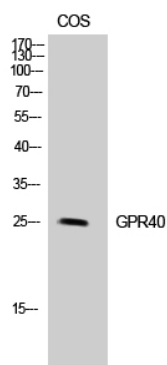
Avoid repeated freezing and thawing!

Usage suggestions

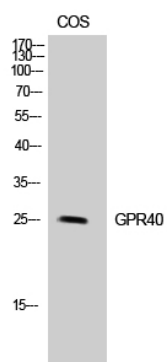
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



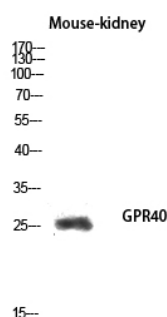
Products Images



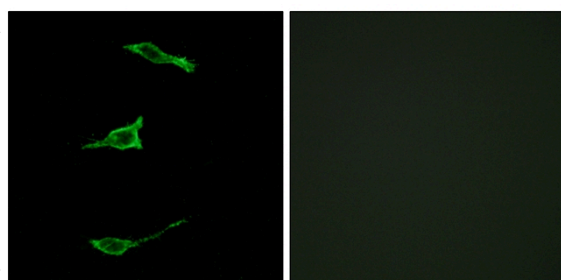
Western Blot analysis of COS7 cells using GPR40
Polyclonal Antibody diluted at 1:500



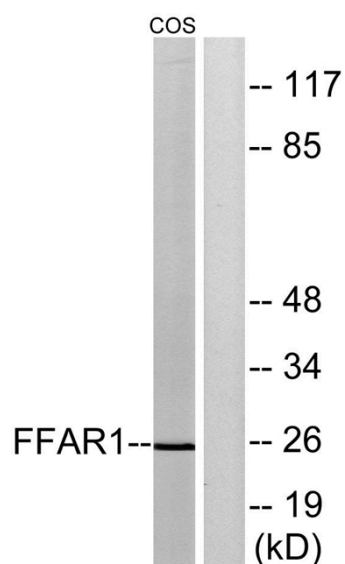
Western Blot analysis of COS-7 cells using GPR40
Polyclonal Antibody diluted at 1:500



Western blot analysis of Mouse-kidney lysis using
GPR40 antibody. Antibody was diluted at 1:500



Immunofluorescence analysis of LOVO cells, using
FFAR1 Antibody. The picture on the right is blocked
with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, treated with forskolin 40nM 30', using FFAR1 Antibody. The lane on the right is blocked with the synthesized peptide.