

OXGR1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20310b**Specification**

OXGR1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q96P68
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38251
Antigen Region	309-337

OXGR1 Antibody (C-term) - Additional Information**Gene ID** 27199**Other Names**

2-oxoglutarate receptor 1, Alpha-ketoglutarate receptor 1, G-protein coupled receptor 80, G-protein coupled receptor 99, P2Y purinoceptor 15, P2Y15, P2Y-like GPCR, P2Y-like nucleotide receptor, OXGR1, GPR80, GPR99, P2RY15, P2Y15

Target/Specificity

This OXGR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-337 amino acids from the C-terminal region of human OXGR1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

OXGR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

OXGR1 Antibody (C-term) - Protein Information**Name** OXGR1

Function G protein-coupled receptor for dicarboxylates and amino dicarboxylates (PubMed:[15141213](#), PubMed:[36571463](#), PubMed:[36919698](#)). Receptor for itaconate, a metabolite produced by myeloid lineages (PubMed:[36919698](#)). In the respiratory epithelium, couples the binding of itaconate to the activation of GNA11 and downstream intracellular Ca^{2+} release, leading to mucociliary clearance of airborne pathogens (PubMed:[36919698](#)). Receptor for leukotriene E₄ (LTE₄) produced by mast cells upon allergic inflammation. Binds with high affinity to LTE₄ and elicits mucin release from pulmonary epithelium in response to airborne fungi allergens. Regulates mucin-producing goblet cell homeostasis (By similarity). Receptor for alpha-ketoglutarate produced by proximal tubule renal cells upon metabolic alkalosis. In an intrarenal paracrine signaling pathway, binds alpha-ketoglutarate and drives transepithelial salt reabsorption and bicarbonate secretion by SLC26A4/pendrin-positive intercalated cells (By similarity) (PubMed:[15141213](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Note=Upon itaconate binding, internalizes via endocytosis in a beta-arrestin dependent manner

Tissue Location

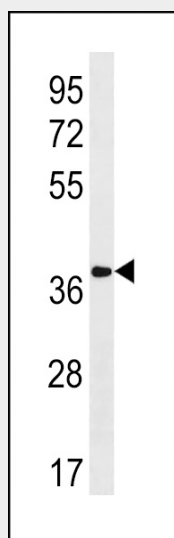
Detected in kidney and, to a lower extent, in placenta. Not detected in brain tissues including the frontal cortex, caudate putamen, thalamus, hypothalamus, hippocampus or pons

OXGR1 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

OXGR1 Antibody (C-term) - Images



OXGR1 Antibody (C-term) (Cat. #AP20310b) western blot analysis in human placenta tissue

lysates (35ug/lane). This demonstrates the OXGR1 antibody detected the OXGR1 protein (arrow).

OXGR1 Antibody (C-term) - Background

Receptor for alpha-ketoglutarate. Seems to act exclusively through a G(q)-mediated pathway (By similarity).