

Product Name: KD-Validated Oxoglutarate Receptor 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01213

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 38.3kDa

Antigen Information

Gene Name	OXGR1 OXGR1; Oxoglutarate Receptor 1; P2RY15; P2Y15; Alpha-Ketoglutarate Receptor 1; 2-Oxoglutarate Receptor 1; GPR80; GPR99; AKGR; Oxoglutarate (Alpha-Ketoglutarate)
Alternative Names	Receptor 1; G Protein-Coupled Receptor 80; G-Protein Coupled Receptor 99; P2Y-Like Nucleotide Receptor; P2Y Purinoceptor 15; P2Y-Like GPCR; Seven Transmembrane Helix Receptor; G-Protein Coupled Receptor 80; CAON2
Gene ID	27199.0
SwissProt ID	Q96P68
Immunogen	A synthesized peptide derived from human OXGR1 / GPR99

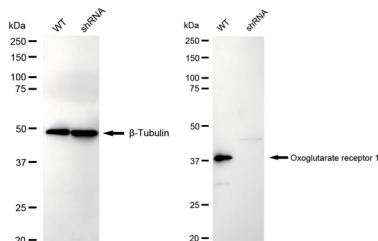
Background

This gene encodes a G protein-coupled receptor (GPCR) that belongs to the oxoglutarate receptor family within the GPCR superfamily. The encoded protein is activated by the citric acid intermediate, oxoglutarate, as well as several cysteinyl leukotrienes, including leukotrienes E4, C4 and D4, which are implicated in many inflammatory disorders. In mice, a knock-out of this gene leads to middle ear inflammation, changes in the mucosal epithelium, and an increase in fluid behind the eardrum, and is associated with hearing loss. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

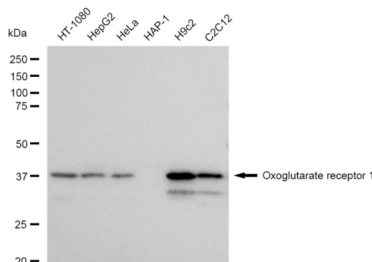
Research Area

Signal Transduction

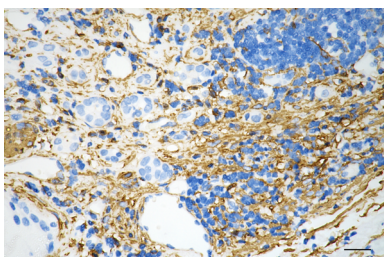
Image Data



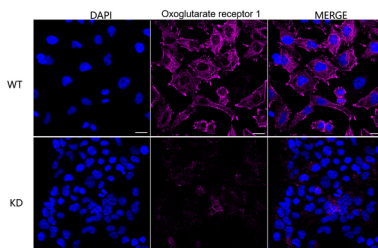
Western blotting analysis using Oxoglutarate receptor 1 antibody (KVA01213). Oxoglutarate receptor 1 expression in wild type (WT) and Oxoglutarate receptor 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Oxoglutarate receptor 1 antibody (KVA01213, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



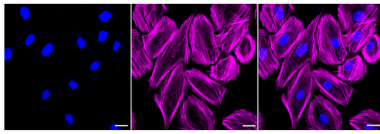
Western blotting analysis using oxoglutarate receptor 1 antibody (KVA01213). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with oxoglutarate receptor 1 antibody (KVA01213, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



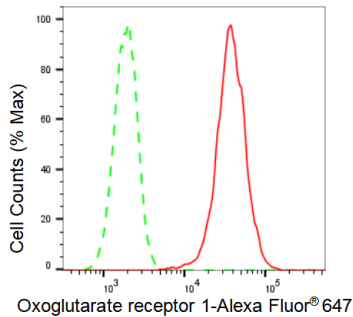
Immunohistochemistry was performed on paraffin-embedded human renal carcinoma using oxoglutarate receptor 1 antibody (KVA01213, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Oxoglutarate receptor 1 antibody (KVA01213, 1:1,000). Top panel: wild-type (WT); Bottom panel: Oxoglutarate receptor 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Oxoglutarate receptor 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of H9C2 cells with Oxoglutarate receptor 1 antibody (KVA01213, 1:1,000). Nuclei were stained blue with DAPI; Oxoglutarate receptor 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μ m.



Flow cytometric analysis of Oxoglutarate receptor 1 expression in H9c2 cells using Oxoglutarate receptor 1 antibody (KVA01213, 1:2,000). Green, isotype control; red, Oxoglutarate receptor 1.