Product datasheet Anti-GPBAR1 Antibody Catalog Number: A01958-1

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BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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Product Name	Anti-GPBAR1 Antibody
Gene Name	GPBAR1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GPCR TGR5/GPBAR1, which shares 100% and 92.9% amino acid (aa) sequence identity with human and rat GPCR TGR5/GPBAR1, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	45 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

The G protein-coupled bile acid receptor 1 (GPBAR1) also known G-protein coupled receptor 19 (GPCR19), membrane-type receptor for bile acids (M-BAR) or TGR5 as is a protein that in humans is encoded by the GPBAR1 gene. This gene encodes a member of the G protein-coupled receptor (GPCR) superfamily. This enzyme functions as a cell surface receptor for bile acids. Treatment of cells expressing this GPCR with bile acids induces the production of intracellular cAMP, activation of a MAP kinase signaling pathway, and internalization of the receptor. The receptor is implicated in the suppression of macrophage functions and regulation of energy homeostasis by bile acids. Alternative splicing results in multiple transcript variants encoding the same protein.

Reference



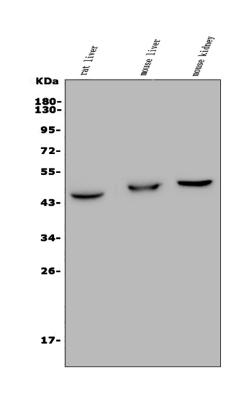
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Anti-GPBAR1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of GPBAR1 using anti-GPBAR1 antibody (A01958-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat liver tissue lysates,

Lane 2: Mouse liver tissue lysates,

Lane 3: Mouse kidney tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GPBAR1 antigen affinity purified polyclonal antibody (A01958-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GPBAR1 at approximately 45 kDa. The expected band size for GPBAR1 is at 35 kDa.