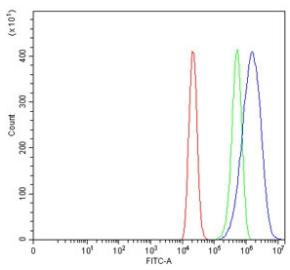
TGR5 Antibody / GPBAR1 (RQ6993)

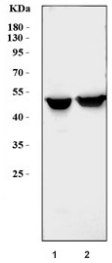
Catalog No.	Formulation	Size
RQ6993	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8TDU6
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This TGR5 antibody is available for research use only.



Flow cytometry testing of human ThP-1 cells with TGR5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TGR5 antibody.



Western blot testing of 1) rat PC-12 and 2) mouse RAW264.7 cell lysate with TGR5 antibody. Predicted molecular weight: 35-50 kDa depending on glycosylation level.

Description

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) and 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.

Application Notes

Optimal dilution of the TGR5 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids N76-S310) was used as the immunogen for the TGR5 antibody.

Storage

After reconstitution, the TGR5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.