Product datasheet

Anti-GPCR TGR5 antibody ab72608

Overview

Product name
Anti-GPCR TGR5 antibody

Description
Rabbit polyclonal to GPCR TGR5

Host species
Rabbit

Tested applications
Suitable for: IHC-P, ICC/IF, WB, IHC-Fr

Species reactivity
Reacts with: Mouse, Rat, Human

Immunogen
Synthetic peptide corresponding to a region between residues 250 and 300 of human GPCR TGR5 (NP_733800.1).

Positive control
WB: Mouse spleen lysate; rat spleen lysate, mouse spleen lysate. IHC-P: Mouse colon tissue. ICC/IF: HEK-293 cells.

General notes
GPCR is multi pass membrane protein, customers may try heating the lysates for 15-20 minutes at 60-70°C instead of boiling the samples. Non fat dry milk as blocking agent seems effective than BSA with current lot. Please contact technical support team for more information.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer
Preservative: 0.05% Sodium azide
Constituent: Whole serum

Purity
Whole antiserum

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab72608 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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### Function
Receptor for bile acid. Bile acid-binding induces its internalization, activation of extracellular signal-regulated kinase and intracellular cAMP production. May be involved in the suppression of macrophage functions by bile acids.

### Tissue specificity
Ubiquitously expressed. Expressed at higher level in spleen and placenta. Expressed at lower level in other tissues. In digestive tissues, it is expressed in stomach, duodenum, ileocecum, ileum, jejunum, ascending colon, transverse colon, descending colon, cecum and liver, but not in esophagus and rectum.

### Sequence similarities
Belongs to the G-protein coupled receptor 1 family.

### Cellular localization
Cell membrane.

### Images

![Western blot - Anti-GPCR TGR5 antibody (ab72608)](image)

- **Lane 2**: Anti-GPCR TGR5 antibody (ab72608) at 1/1000 dilution
- **Lanes 3-4**: Anti-GPCR TGR5 antibody (ab72608) at 1/5000 dilution
- **Lane 1**: Pre-immune serum
- **Lane 2**: Human spleen lysate
- **Lane 3**: Mouse spleen lysate
- **Lane 4**: Rat spleen lysate

**Predicted band size**: 35 kDa  
**Observed band size**: 33 kDa  
*why is the actual band size different from the predicted?*  
*Additional bands at*: 27 kDa. We are unsure as to the identity of these extra bands.
Formalin-fixed, paraffin-embedded mouse colon tissue stained for GPCR TGR5 with ab72608 at 1/200 dilution in immunohistochemical analysis. DAB staining. Counter stained with Hematoxylin.

HEK-293 (human epithelial cell line from embryonic kidney) cells stained for GPCR TGR5 (green) using ab72608 at 1/50 dilution ICC/IF.

The nuclear counter stain is DAPI (blue). Alpha-tubulin is stained with Dylight 550 (red).

IHC image of ab72608 staining in human tonsil formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab72608, at 1/100 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody
incubation times.

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