Product datasheet

Anti-Puma gamma/GPR109A antibody ab198693

1 References  2 Images

Overview

Product name: Anti-Puma gamma/GPR109A antibody
Description: Rabbit polyclonal to Puma gamma/GPR109A
Host species: Rabbit
Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide within Human Puma gamma/GPR109A (internal sequence). The exact sequence is proprietary. NCBI Accession No. NP_808219. Database link: Q8TDS4
Positive control: Human gastric cancer and thyroid cancer tissues.
General notes: This product was previously labelled as Puma gamma

Properties

Form: Liquid
Storage buffer: pH: 7.3
Preservative: 0.05% Sodium azide
Constituents: 50% Glycerol, 49% PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab198693 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>1/40 - 1/300. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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**Target**

**Function**
Acts as a high affinity receptor for both nicotinic acid (also known as niacin) and (D)-beta-hydroxybutyrate and mediates increased adiponectin secretion and decreased lipolysis through G(i)-protein-mediated inhibition of adenylyl cyclase. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet. Mediates nicotinic acid-induced apoptosis in mature neutrophils. Receptor activation by nicotinic acid results in reduced cAMP levels which may affect activity of cAMP-dependent protein kinase A and phosphorylation of target proteins, leading to neutrophil apoptosis. The rank order of potency for the displacement of nicotinic acid binding is 5-methyl pyrazole-3-carboxylic acid = pyridine-3-acetic acid > acifran > 5-methyl nicotinic acid = acipimox >> nicotinuric acid = nicotinamide.

**Tissue specificity**
Expression largely restricted to adipose tissue and spleen. Expressed on mature neutrophils but not on immature neutrophils or eosinophils.

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

**Developmental stage**
Expression in neutrophils occurs in the late terminal differentiation phase.

**Cellular localization**
Cell membrane.

**Images**

Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue labeling Puma gamma/GPR109A using ab198693 at a 1/40 dilution.
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue labeling Puma gamma/GPR109A using ab198693 at a 1/40 dilution.

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