

# GNA15 Polyclonal antibody

Catalog Number: 12078-1-AP

## Basic Information

**Catalog Number:**

12078-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2738

**GenBank Accession Number:**

BC013585

**GeneID (NCBI):**

2769

**UNIPROT ID:**

P30679

**Full Name:**

guanine nucleotide binding protein (G protein), alpha 15 (Gq class)

**Calculated MW:**

374 aa, 44 kDa

**Observed MW:**

44 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Species Specificity:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : MOLT-4 cells, mouse spleen tissue

IHC : human small intestine tissue,

## Background Information

GNA15, also known as GNA16, belongs to the G-alpha family and G(q) subfamily. The protein encoded by the GNA15 gene is the alpha subunit of the G protein, which participates in the regulation of cell proliferation and apoptosis. GNA15 is highly expressed in some cell types, such as hematopoietic stem cells and epithelial cells during specific stages of differentiation. GNA15 is known to play as an oncogene in several tumors, such as gastroenteropancreatic neuroendocrine neoplasia (GEP-NEN), liver cancer, pancreatic ductal adenocarcinoma and ovarian cancer (PMID: 34552875). The molecular weight of GNA15 is 44 kDa.

## Storage

**Storage:**

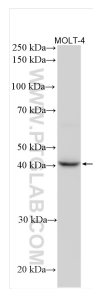
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

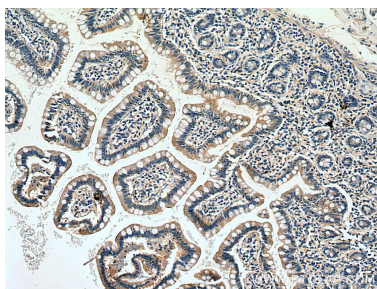
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



MOLT-4 cells were subjected to SDS PAGE followed by western blot with 12078-1-AP (GNA15 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 12078-1-AP (GNA15 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).