

For Research Use Only

# S100G/Calbindin-D9k Polyclonal antibody

Catalog Number: 18340-1-AP



## Basic Information

Catalog Number:

18340-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 487 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13109

GenBank Accession Number:

BC112174

GeneID (NCBI):

795

UNIPROT ID:

P29377

Full Name:

S100 calcium binding protein G

Calculated MW:

79 aa, 9 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:50-1:500

## Applications

Tested Applications:

IHC, ELISA

Species Specificity:

human, mouse

**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:

IHC : mouse small intestine tissue,

## Background Information

S100G also named calbindin D9K, is a vitamin D-dependent calcium-binding protein. This cytosolic protein belongs to a family of calcium-binding proteins that includes calmodulin, parvalbumin, troponin C, and S100 protein. In the intestine, the protein is vitamin D-dependent and its expression correlates with calcium transport activity. The protein may increase Ca<sup>2+</sup> absorption by buffering Ca<sup>2+</sup> in the cytoplasm and increase ATP-dependent Ca<sup>2+</sup> transport in duodenal basolateral membrane vesicles.

## 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

\*\*\* 20ul sizes contain 0.1% BSA

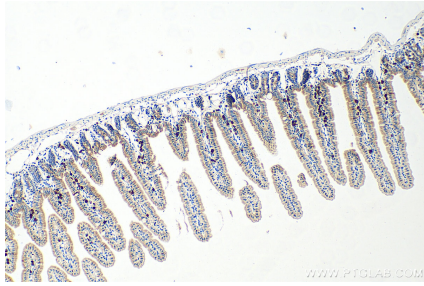
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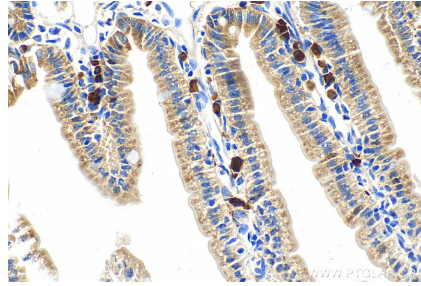
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 18340-1-AP (S100G/Calbindin-D9k antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 18340-1-AP (S100G/Calbindin-D9k antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).