

S100G/Calbindin-D9k Polyclonal antibody

Catalog Number: **18340-1-AP**

Basic Information

Catalog Number: 18340-1-AP	GenBank Accession Number: BC112174	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 795	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P29377	
Isotype: IgG	Full Name: S100 calcium binding protein G	
Immunogen Catalog Number: AG13109	Calculated MW: 79 aa, 9 kDa	

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : mouse small intestine tissue,
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

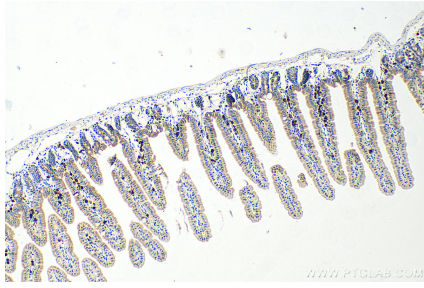
Background Information

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 Ca²⁺ absorption by buffering Ca²⁺ in the cytoplasm and increase ATP-dependent Ca²⁺ transport in duodenal basolateral membrane vesicles.

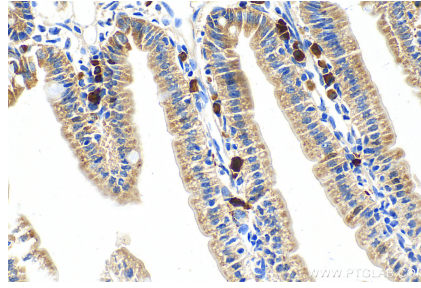
Storage

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

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).