

For Research Use Only

GUCA1C Polyclonal antibody

Catalog Number: 21531-1-AP



Basic Information

Catalog Number: 21531-1-AP	GenBank Accession Number: BC103993	Purification Method: Antigen affinity purification
Source: Rabbit	GeneID (NCBI): 9626	Recommended Dilutions: IHC: 1:400-1:1600
Isotype: IgG	UNIPROT ID: O95843	
Immunogen Catalog Number: AG16157	Full Name: guanylate cyclase activator 1C	
	Calculated MW: 209 aa, 24 kDa	

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : rat eye tissue,
Species Specificity: human, rat	

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

The guanylate cyclase-activating proteins (GCAPs), Ca²⁺-binding proteins of the calmodulin gene superfamily, function as regulators of photoreceptor guanylate cyclases (PMID: 15336959). Three different GCAPs (GCAP1, GCAP2, and GCAP3) are identified in vertebrate retina (PMID: 12596930). The cone-specific guanylate cyclase-activating protein 3 (GCAP3) has been shown to regulate the enzymatic activity of membrane-bound guanylate cyclases (GCs) in bovine and teleost fish photoreceptors, to an extent comparable to that of the paralog protein GCAP1 (PMID: 35328663).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

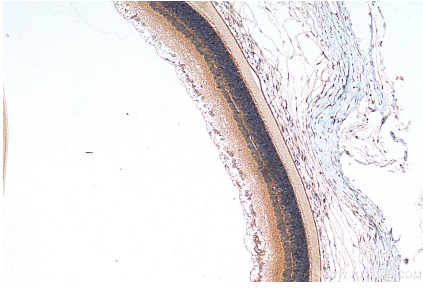
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded rat eye tissue slide using 21531-1-AP (GUCA1C antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).