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Datasheet for ABIN1712059
anti-GCAP1 antibody (AA 51-150) (HRP)

Overview

Quantity:	100 µL
Target:	GCAP1 (GUCA1A)
Binding Specificity:	AA 51-150
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCAP1 antibody is conjugated to HRP
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GCAP1
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog,Cow,Sheep,Horse
Purification:	Purified by Protein A.

Target Details

Target:	GCAP1 (GUCA1A)
Alternative Name:	GCAP1 (GUCA1A Products)

Target Details

Background: Synonyms: COD3, GCAP 1, GCAP, Guanylate Cyclase Activating Protein Photoreceptor 1, Guanylate Cyclase Activating Protein Photoreceptor 1, Guanylate Cyclase Activator 1A, Guanylate Cyclase Activator 1A, Guanylin 1, Guanylin 1, guanylyl cyclase activating protein 1, Guanylyl cyclase-activating protein 1, GUC1A_HUMAN, GUCA, GUCA1, GUCA1A, GUCA1A.

Background: intracellular stimulation of guanylate cyclase (GC) by calcium, a key event in the recovery of the dark state of rod photoreceptors after exposure to light, is mediated by guanylate cyclase-activating protein (GCAP1). GCAPs are calcium-binding proteins belonging to the calmodulin superfamily. GCAP1 is a calcium-binding protein that stimulates synthesis of c-GMP in photoreceptors. GCAP1 is present in rod and cone photoreceptor outer segments where phototransduction occurs. In contrast to other calcium-binding proteins from the calmodulin superfamily, the calcium-free form of GCAP1 stimulates the effector enzyme. By molecular cloning of human and mouse GCAP cDNA, the known mammalian GCAPs are found to be more than 90 % similar, consisting of 201 to 205 amino acids, and containing three identically conserved calcium-binding sites. A related protein, GCAP2, is detectable only in the retina and results from a gene duplication event.

Gene ID: 2978

Pathways: [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Phototransduction](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IHC-F 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Handling Advice:	Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months