

Rabbit GCAP1 Polyclonal Antibody | anti-GUCA1A antibody

GCAP1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284089	Rabbit	Human (Predicted Reactivity: Bovine)	Immunohistochemistry, ELISA, Western Blot

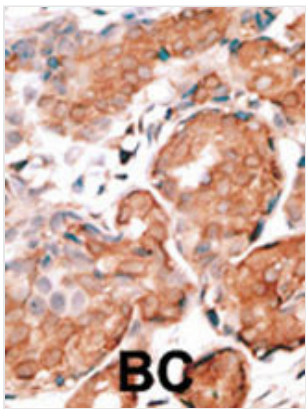
PRODUCT SYNONYMS

GCAP1; Polyclonal Antibody; GCAP1 Antibody (C-term); Guanylyl cyclase-activating protein 1; GCAP 1; Guanylate cyclase activator 1A; GUCA1A; C6orf131; GCAP; GUCA1; anti-GUCA1A antibody

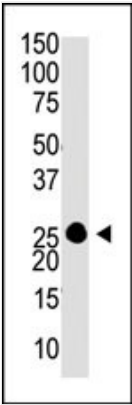
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GCAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-191 amino acids from the C-terminal region of human GCAP1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	160-191
Sequence Length	201
Applicable Applications for anti-GUCA1A antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
The anti-GCAP1 C-term Pab is used in Western blot to detect GCAP1 in Y79 cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-GUCA1A antibody	Guanylate cyclase-activating protein is a Ca^{2+} -binding protein that upregulates synthesis of cGMP in photoreceptors. The known mammalian GCAPs are more than 90% similar, consisting of 201 to 205 amino acids, and containing 3 identically conserved Ca^{2+} -binding sites. The GUCA1A gene, also termed GCAP1, is transcribed into a single 1.7-kb mRNA species detectable only in the retina. In a 4-generation British family with typical clinical features of autosomal dominant cone dystrophy a tyr99-to-cys mutation) in the GUCA1A gene has been identified. Another family with a pro50-to-leu mutation in GUCA1A demonstrated phenotypic variability ranging from mild photophobia to rod-cone dystrophy. The mutant protein could activate guanylate cyclase 1 (GUCY2D) and displayed similar calcium sensitivity to wildtype protein. However, there was a marked increase in the susceptibility to protease degradation and a reduction in the thermal stability of the pro50-to-leu mutation, which may depress cellular concentration and thereby contribute to retinal cell mortality.
Product Categories/Family for anti-GUCA1A antibody	Neuroscience; Signal Transduction
References	Pennesi, M.E., et al., Proc. Natl. Acad. Sci. U.S.A. 100(11):6783-6788 (2003). Payne, A.M., et al., Hum. Mol. Genet. 7(2):273-277 (1998). Subbaraya, I., et al., J. Biol. Chem. 269(49):31080-31089 (1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	40254415
NCBI GeneID	2978
NCBI Accession #	NP_000400.2
NCBI GenBank Nucleotide #	NM_000409.3
UniProt Accession #	P43080; Q7Z6T1; Q9NU14; B3KWT4
Molecular Weight	22920
NCBI Official Full Name	guanylyl cyclase-activating protein 1
NCBI Official Synonym Full Names	guanylate cyclase activator 1A (retina)
NCBI Official Symbol	GUCA1A
NCBI Official Synonym Symbols	COD3; GCAP; GUCA; GCAP1; GUCA1; CORD14; C6orf131; dJ139D8.6
NCBI Protein Information	guanylyl cyclase-activating protein 1

UniProt Protein Name	Guanylyl cyclase-activating protein 1
UniProt Gene Name	GUCA1A
UniProt Synonym Gene Names	C6orf131; GCAP; GCAP1; GUCA1; GCAP 1
UniProt Entry Name	GUC1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/gcap1-antibody-immunohistochemistry-western-blot-elisa/284089>