

DNAxPAb

Hard-to-Find Antibody

## **GUCA1A DNAxPab**

Catalog # H00002978-W01P Size 200 ug

Specification	
Product Description	Rabbit polyclonal antibody raised against a full-length human GUCA1A DNA using DNAx™ Immune t echnology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MGNVMEGKSVEELSSTECHQWYKKFMTECPSGQLTLYEFRQFFGLKNLSPSASQYVEQMFETF DFNKDGYIDFMEYVAALSLVLKGKVEQKLRWYFKLYDVDGNGCIDRDELLTIIQAIRAINPCSDTTMT AEEFTDTVFSKIDVNGDGELSLEEFIEGVQKDQMLLDTLTRSLDLTRIVRRLQNGEQDEEGADEAA EAAG
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## **Applications**

Western Blot (Transfected lysate)

Protocol Download

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)



Gene Info — GUCA1A	
Entrez GenelD	2978
GeneBank Accession#	NM_000409.2
Protein Accession#	NP_000400.2
Gene Name	GUCA1A
Gene Alias	COD3, GCAP, GCAP1, GUCA, GUCA1
Gene Description	guanylate cyclase activator 1A (retina)
Omim ID	<u>600364</u> <u>602093</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene plays a role in the recovery of retinal photoreceptors from photobleaching. In the recove ry phase, the phototransduction messeneger cGMP is replenished by retinal guanylyl cyclase-1 (G C1). GC1 is activated by decreasing Ca(2+) concentrations following photobleaching. The protein encoded by this gene, guanylyl cyclase activating protein 1 (GCAP1), mediates the sensitivity of GC1 to Ca(2+) concentrations. GCAP1 promotes activity of GC1 at low Ca(2+) concentrations and inhibits GC1 activity at high Ca(2+) concentrations. Mutations in this gene cause autosomal do minant cone dystrophy (COD3); a disease characterized by reduced visual acuity associated with progressive loss of color vision. Mutations in this gene prohibit the inactivation of RetGC1 at high Ca(2+) concentrations; causing the constitutive activation of RetGC1 and, presumably, increased cell death. This gene is expressed in retina and spermatagonia. [provided by RefSeq
Other Designations	OTTHUMP00000016397 OTTHUMP00000196466

## Pathway

Olfactory transduction

## Disease

- Retinal Degeneration
- Retinal Diseases