

Product datasheet for **TA336234**

GCAP1 (GUCA1A) Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB |
| Reactivity: | Human |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | The immunogen for Anti-GUCA1A Antibody: synthetic peptide directed towards the N terminal of human GUCA1A. Synthetic peptide located within the following region: LYEFRQFFGLKNLSPSASQYVEQMFETFDNKGIDFM EYVAALSLVLK |
| Formulation: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 23 kDa |
| Gene Name: | guanylate cyclase activator 1A |
| Database Link: | NP_000400 Entrez Gene 2978 Human P43080 |



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Background: GUCA1A(GCAP1) plays a role in the recovery of retinal photoreceptors from photobleaching. In the recovery phase, the phototransduction messenger cGMP is replenished by retinal guanylyl cyclase-1 (GC1). GC1 is activated by decreasing Ca(2+) concentrations following photobleaching. The protein 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 dominant 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 spermatogonia.

Synonyms: C6orf131; COD3; CORD14; GCAP; GCAP1; GUCA; GUCA1

Note: Immunogen Sequence Homology: Dog: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 93%; Bovine: 93%; Rabbit: 93%; Guinea pig: 86%

Protein Families: Druggable Genome

Protein Pathways: Olfactory transduction

Product images:



WB Suggested Anti-GUCA1A Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1: 62500; Positive
Control: Human kidney