

## Anti-GCAP1 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 23 kDa. Actual: 23 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	1. Sample: Eye (Mouse) Lysate at 40 µg Primary: Anti-GCAP1 (TMAB-06372) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD Observed band size: 25 kD
	2. Sample: Cerebrum (Rat) Lysate at 40 µg Primary: Anti-GCAP1 (TMAB-06372) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD Observed band size: 23 kD
	Application: WB
	Recommended WB: 1:500-2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GCAP1
Antigen Species:	Human
Gene ID:	2978
Uniprot ID:	P43080

## Research 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481