

Rabbit Anti-Guanylyl Cyclase alpha 1/AF350 Conjugated antibody

SL13544R-AF350

Product Name	Anti-Guanylyl Cyclase alpha 1/AF350
Chinese Name	AF350 标记的鸟苷酸环化酶 α 1/GCS- α -1 抗体
Alias	GC S alpha 1; GC SA3; GCS alpha 1; GCS alpha 3; GCS-alpha-1; GCS-alpha-3; GCYA3_HUMAN; Guanylate cyclase 1 soluble alpha 3; Guanylate cyclase soluble subunit alpha 1; Guanylate cyclase soluble subunit alpha 3; Guanylate cyclase soluble subunit alpha-3; Guc1a1; GUC1A3; GUCA3; GUCSA3; Gucy1a1; Gucy1a3; Soluble guanylate cyclase large subunit; α 1 Soluble Guanylyl Cyclase; sGC α 1.
Research Area	Cell biology Neurobiology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Rabbit) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	77kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Guanylyl Cyclase alpha 1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background:

Guanylate cyclases belong to the adenylyl cyclase class-4/guanylyl cyclase family. There are two forms of guanylate cyclase. The soluble forms, known as GCS or sGC, act as receptors for nitric oxide. The membrane-bound receptor forms, known as GC, are peptide hormone receptors. GCS, a cGMP-synthesizing enzyme, is the major receptor for the neurotransmitter nitric oxide (NO). It plays a crucial role in smooth muscle contractility, platelet reactivity and neurotransmission. GCS is a heme containing heterodimer, consisting of one alpha subunit, designated GCS-alpha-1, and one beta subunit. The heme moiety mediates NO activation, and this heme group also binds carbon monoxide, which weakly stimulates the enzyme. Both NO and CO stimulation are enhanced by the allosteric activator 3-(5'-hydroxymethyl-2'furyl)-benzyl-indazole, YC-1. YC-1 can also stimulate GCS in a NO-independent manner. Both the alpha and beta subunits are required for cGMP generation, and at least two isoforms exist for each subunit. Heterodimers consisting of alpha-1/beta-1 and alpha-2/beta-1 have been identified, and both display similar enzymatic activity.

Subunit:

Heterodimer of an alpha and a beta chain.

Subcellular Location:

Cytoplasm.

Similarity:

Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.
Contains 1 guanylate cyclase domain.

Database links:

[Entrez Gene: 482663](#) Dog

[Entrez Gene: 2982](#) Human

[Entrez Gene: 60596](#) Mouse

[Entrez Gene: 497757](#) Rat

[Omin: 139396](#) Human

[SwissProt: Q4ZHS0](#) Dog

[SwissProt: Q02108](#) Human

[SwissProt: Q9ERL9](#) Mouse

[SwissProt: P19686](#) Rat



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[Unigene: 24258](#) Human

[Unigene: 143831](#) Mouse

[Unigene: 1974](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.