



GCS- α -1 Polyclonal Antibody

Catalog No	YP-Ab-03897
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;CoIP;IHC;IF;ELISA
Gene Name	GUCY1A3
Immunogen	The antiserum was produced against synthesized peptide derived from human GCS-alpha-1. AA range:374-423
Specificity	GCS- α -1 Polyclonal Antibody detects endogenous levels of GCS- α -1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	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;Guanylate cyclase;nitric oxide-sensitive;alpha-1 subunit;Guc1a1;GUC1A3;GUCA3;GUCSA3;Gucy1a1;Gucy1a3;MYMY6;nitric oxide-sensitive Guanylate cyclase;NOGC;Soluble guanylate cyclase large subunit;GCS- α -1
Observed Band	77kD
Calculated Molecular Weight	77kD
Cell Pathway	Cytoplasm .
Tissue Specificity	Detected in brain cortex and lung (at protein level).
Function	catalytic activity:GTP = 3',5'-cyclic GMP + diphosphate.,enzyme regulation:Activated by nitric oxide in the presence of magnesium or manganese ions.,miscellaneous:There are two types of guanylate cyclases: soluble forms and membrane-associated receptor forms.,similarity:Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.,similarity:Contains 1 guanylate cyclase domain.,subunit:Heterodimer of an alpha and a beta chain.,



Background

Soluble guanylate cyclases are heterodimeric proteins that catalyze the conversion of GTP to 3',5'-cyclic GMP and pyrophosphate. The protein encoded by this gene is an alpha subunit of this complex and it interacts with a beta subunit to form the guanylate cyclase enzyme, which is activated by nitric oxide. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Jan 2012],

matters needing attention

Avoid repeated freezing and thawing!

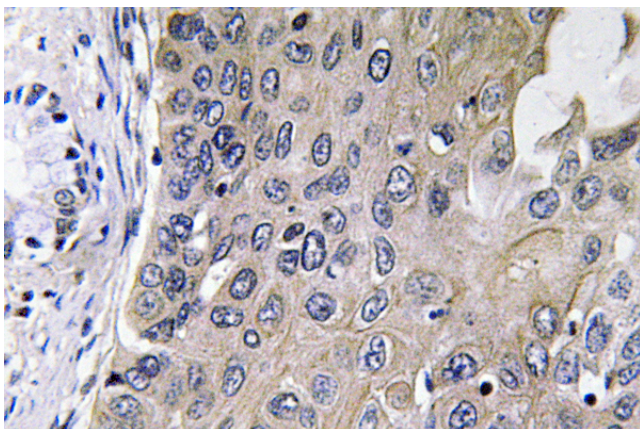
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

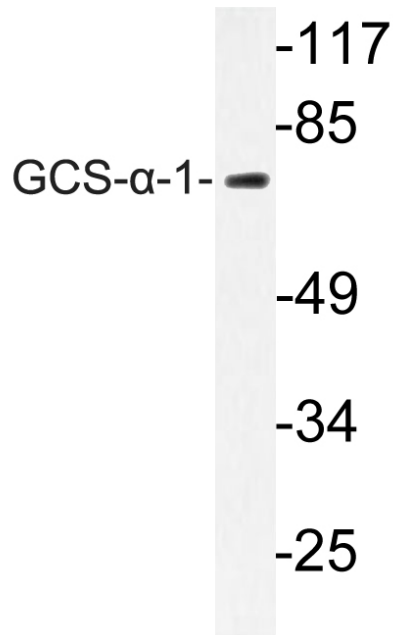
Products Images



Western Blot analysis of various cells using GCS- α -1 Polyclonal Antibody



Immunohistochemistry analysis of GCS- α -1 antibody in paraffin-embedded human lung carcinoma tissue.



Western blot analysis of lysate from A549 cells, using GCS- α -1 antibody.