

Rabbit Guanylyl Cyclase alpha 2 Polyclonal Antibody | anti-GUCY1A2 antibody

Guanylyl Cyclase alpha 2 Antibody

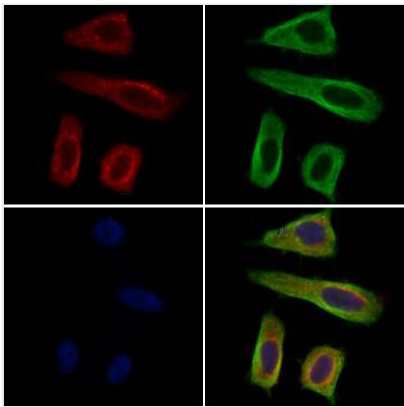
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31233	Rabbit	Human, Mouse, Rat Predicted Reactivity: Horse(100%), Rabbit(100%)	ELISA

PRODUCT SYNONYMS

Guanylyl Cyclase alpha 2; Polyclonal Antibody; Guanylyl Cyclase alpha 2 Antibody; GC SA2; GCS alpha 2; GCS-alpha-2; GCYA2_HUMAN; Guanylate cyclase soluble subunit alpha-2; GUC1A2; GUCSA2; GUCY1A2; anti-GUCY1A2 antibody

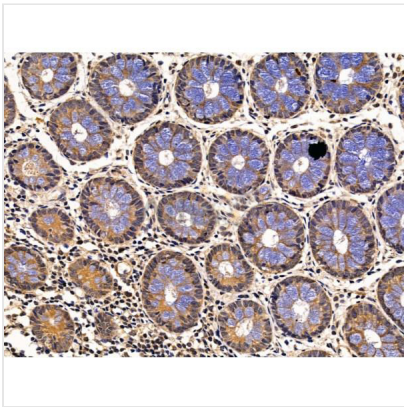
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Horse(100%), Rabbit(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Guanylyl Cyclase alpha 2 Antibody detects endogenous levels of total Guanylyl Cyclase alpha 2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	732
Applicable Applications for anti-GUCY1A2 antibody	ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000 The optimal dilutions should be determined by the end user. IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.
Immunogen	A synthesized peptide derived from human Guanylyl Cyclase alpha 2, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



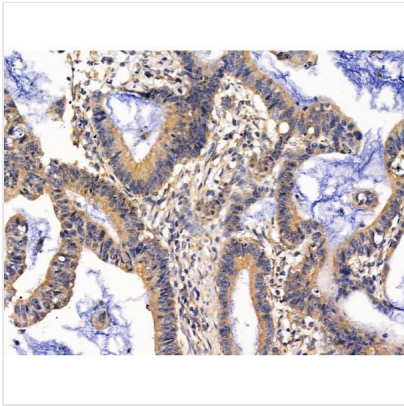
IF (Immunofluorescence)

AAA31233 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31233 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



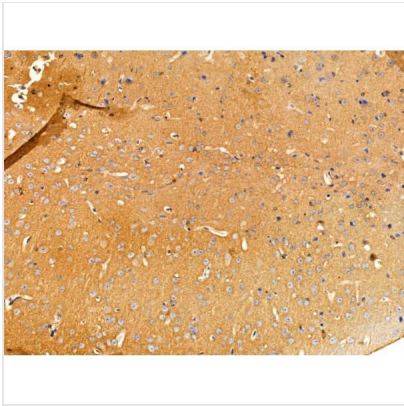
IHC (Immunohistochemistry-Paraffin)

AAA31233 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



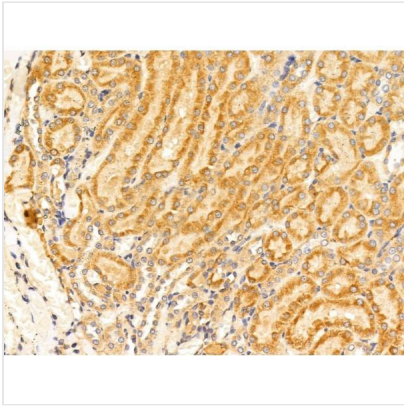
IHC (Immunohistochemistry-Paraffin)

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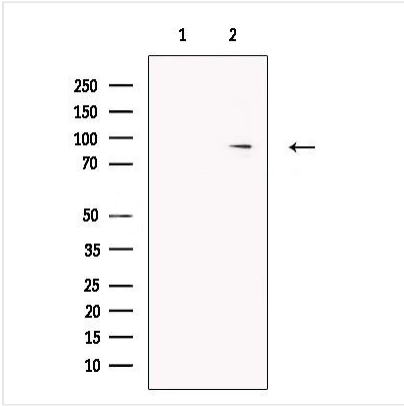
IHC (Immunohistochemistry-Paraffin)

AAA31233 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31233 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Human fetal kidney, using Guanylyl Cyclase alpha 2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GUCY1A2 antibody	Function: Has guanylyl cyclase on binding to the beta-1 subunit.Isoform 2 acts as a negative regulator of guanylyl cyclase activity as it forms non-functional heterodimers with the beta subunits.
	Subcellular Location: Cytoplasm.
	Tissue Specificity: Isoform 1 is expressed in fetal brain, liver, colon, endothelium and testis. Isoform 2 is expressed only in liver, colon and endothelium.
	Subunit Structure: Heterodimer of an alpha and a beta chain.
	Similarity: Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504211
NCBI GeneID	2977
NCBI Accession #	NP_000846.1
NCBI GenBank Nucleotide #	NP_000846.1
UniProt Accession #	P33402
Molecular Weight	81 kDa
NCBI Official Full Name	guanylate cyclase soluble subunit alpha-2 isoform 2
NCBI Official Synonym Full Names	guanylate cyclase 1 soluble subunit alpha 2
NCBI Official Symbol	GUCY1A2
NCBI Official Synonym Symbols	GC-SA2; GUC1A2
NCBI Protein Information	guanylate cyclase soluble subunit alpha-2
UniProt Protein Name	Guanylate cyclase soluble subunit alpha-2
UniProt Gene Name	GUCY1A2
UniProt Synonym Gene Names	GUC1A2; GUCSA2
UniProt Entry Name	GCYA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/guanylyl-cyclase-alpha-2-antibody-elisa/31233>