

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7134A**Specification**

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q02108
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	269-300

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Additional Information**Gene ID** 2982**Other Names**

Guanylate cyclase soluble subunit alpha-3, GCS-alpha-3, GCS-alpha-1, Soluble guanylate cyclase large subunit, GUCY1A3, GUC1A3, GUCSA3, GUCY1A1

Target/Specificity

This Guanylyl Cyclase alpha 1 (GUCY1A3) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 269-300 amino acids from the N-terminal region of human Guanylyl Cyclase alpha 1 (GUCY1A3).

Dilution

WB~~1:1000

IHC-P~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Protein Information**Name** GUCY1A1 ([HGNC:4685](#))

Cellular Location

Cytoplasm.

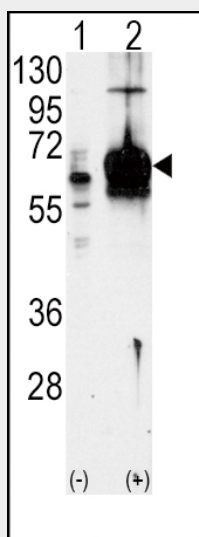
Tissue Location

Detected in brain cortex and lung (at protein level).

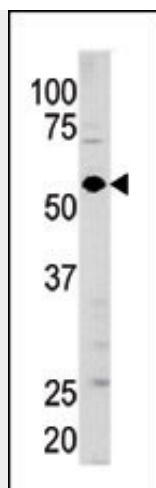
Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

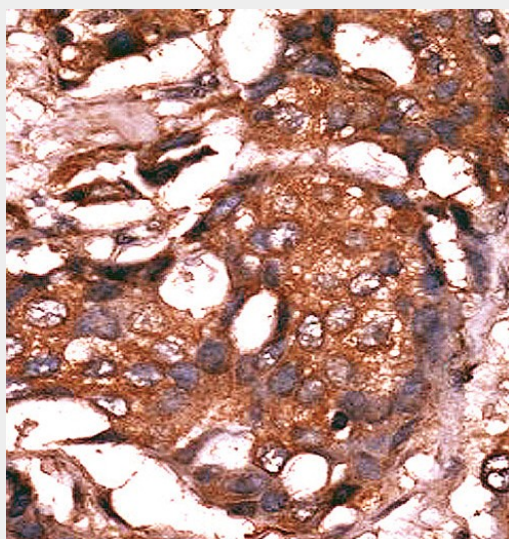
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Images

Western blot analysis of GUCY1A3 (arrow) using GUCY1A3 Antibody (N-term) (Cat.#AP7134a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the GUCY1A3 gene (Lane 2) (Origene Technologies).



Western blot analysis of anti-GUCY1A3 Pab (Cat. #AP7134a) in mouse brain tissue lysate (35ug/lane). GUCY1A3 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Background

Soluble guanylate cyclase (sGC), a heterodimeric protein consisting of an alpha and a beta subunit, catalyzes the conversion of GTP to the second messenger cGMP and functions as the main receptor for nitric oxide and nitrovasodilator drugs.

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - References

- Saino, M., et al., *Oncol. Rep.* 12(1):47-52 (2004).
- Zhou, Y., et al., *Gene* 245(2):319-328 (2000).
- Papapetropoulos, A., et al., *J. Cell. Physiol.* 167(2):213-221 (1996).
- Giuli, G., et al., *Hum. Genet.* 91(3):257-260 (1993).
- Giuli, G., et al., *FEBS Lett.* 304(1):83-88 (1992).

Guanylyl Cyclase alpha 1 (GUCY1A3) Antibody (N-term) - Citations

- [Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration and protection.](#)

