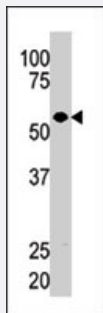


GUCY1A3 polyclonal antibody

Catalog # PAB2683

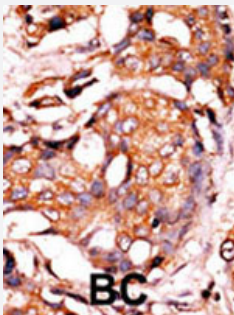
Size 400 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of GUCY1A3 polyclonal antibody (Cat # PAB2683) in mouse brain tissue lysate (35 ug/lane). GUCY1A3 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with GUCY1A3 polyclonal antibody (Cat # PAB2683), 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GUCY1A3.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human GUCY1A3.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

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Gene Info — GUCY1A3

Entrez GeneID	2982
Protein Accession#	NP_000847:Q02108
Gene Name	GUCY1A3
Gene Alias	GC-SA3, GUC1A3, GUCA3, GUCSA3, GUCY1A1
Gene Description	guanylate cyclase 1, soluble, alpha 3
Omim ID	139396
Gene Ontology	Hyperlink
Gene Summary	Soluble guanylate cyclase (sGC), a heterodimeric protein consisting of an alpha subunit, such as alpha-1 (GUCY1A3), and a beta subunit, typically beta-1 (GUCY1B3; MIM 139397), catalyzes conversion of GTP to the second messenger cGMP and functions as the main receptor for nitric oxide and nitrovasodilator drugs (Zabel et al., 1998 [PubMed 9742212]).[supplied by OMIM]
Other Designations	GC-S-alpha-1 soluble guanylate cyclase large subunit

Publication Reference

- [Inhibition of angiogenesis in human glioma cell lines by antisense RNA from the soluble guanylate cyclase genes, GUCY1A3 and GUCY1B3.](#)

Saino M, Maruyama T, Sekiya T, Kayama T, Murakami Y.

Oncology Reports 2004 Jul; 12(1):47.

- [A novel Pax-6 binding site in rodent B1 repetitive elements: coevolution between developmental regulation and repeated elements?](#)

Zhou Y, Zheng JB, Gu X, Li W, Saunders GF.

Gene 2000 Mar; 245(2):319.

- [cGMP accumulation and gene expression of soluble guanylate cyclase in human vascular tissue.](#)

Papapetropoulos A, Cziraki A, Rubin JW, Stone CD, Catravas JD.

Journal of Cellular Physiology 1996 May; 167(2):213.

Pathway

- [Gap junction](#)
- [Long-term depression](#)
- [Purine metabolism](#)
- [Vascular smooth muscle contraction](#)