10320 Camino Santa Fe, Suite G San Diego, CA 92121 Tel: 858.875.1900 Fax: 858.875.1999



# **GUCY1A3** Antibody

Purified Mouse Monoclonal Antibody Catalog # AO2287a

#### **Product Information**

**Application** WB, IHC, FC, ICC, E

Primary Accession

Reactivity

Human

Host

Clonality

Monoclonal

Clone Names

Isotype

IgG1

Calculated MW

Q02108

Human

Mouse

Monoclonal

3G6B2

IgG1

77452

**Description** 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.

**Immunogen** Purified recombinant fragment of human GUCY1A3 (AA: 22-214) expressed in

E. Coli.

**Formulation** Purified antibody in PBS with 0.05% sodium azide

#### **Additional Information**

**Gene ID** 2982

Other Names Guanylate cyclase soluble subunit alpha-3, GCS-alpha-3, 4.6.1.2, GCS-alpha-1,

Soluble guanylate cyclase large subunit, GUCY1A3, GUC1A3, GUCSA3,

GUCY1A1

**Dilution** WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A

E~~1/10000

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** GUCY1A3 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

#### **Protein Information**

Name GUCY1A1 ( HGNC:4685)

**Cellular Location** 

Cytoplasm.

**Tissue Location** 

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

### References

1.Mol Endocrinol. 2012 Feb;26(2):292-307. 2.J Biol Inorg Chem. 2011 Dec;16(8):1227-39.

## **Images**

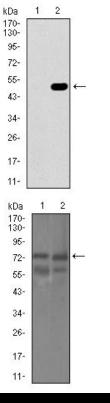


Figure 2: Western blot analysis using GUCY1A3 mAb against HEK293 (1) and GUCY1A3 (AA: 22-214)-hIgGFc transfected HEK293 (2) cell lysate.

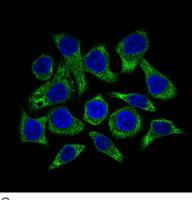


Figure 3: Western blot analysis using GUCY1A3 mouse mAb against HEK293 (1) and Raji (2) cell lysate.

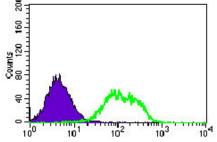


Figure 4: Immunofluorescence analysis of HepG2 cells using GUCY1A3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

Figure 5: Flow cytometric analysis of HEK293 cells using GUCY1A3 mouse mAb (green) and negative control (purple).

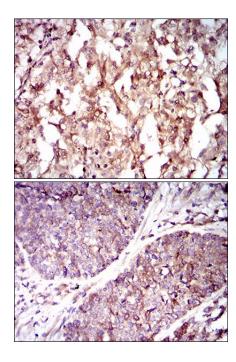


Figure 6: Immunohistochemical analysis of paraffin-embedded renal cancer tissues using GUCY1A3 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.