GUCY2C Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GUCY2C, Monoclonal Antibody
Full Product Name	GUCY2C (Guanylyl Cyclase C, Guanylate Cyclase 2C (Heat Stable Enterotoxin Receptor), GUC2C, STAR) (AP)
Product Gene Name	anti-GUCY2C antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2G7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes human GUCY2C.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	601330
3D Structure	ModBase 3D Structure for P25092
Immunogen	Partial recombinant protein corresponding to aa24-133 from human GUCY2C with GST tag (NP_004954). MW of the GST tag alone is 26kD.
Immunogen Sequence	SQVSQNCHNGSYEISVLMMGNSAFAEPLKNLEDAVNEGLEIVRGRLQNAGLNVTVNATFMYSDGLIHNSGDCRSSTCEGLDLLRKISNAQRMGCVLIGPS
Conjugate	AP
Product Categories/Family for anti-GUCY2C antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-GUCY2C antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-GUCY2C antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GUCY2C antibody	Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C) activated by the endogenous peptides guanylin and uroguanylin.

Other Notes	Small volumes of anti-GUCY2C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional apply.
Searchable Terms for GUCY2C purchase	MBS6134821 is an antibody targeting GUCY2C. Also known as GUCY2C (Guanylyl Cyclase C, Guanylate Cyclase 2C (Heat Stable Enterotoxin Recep STAR) (AP). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-GUCY2C antibody
Western Blot detection against immunogen (37.73kD)



Western Blot (WB) of anti-GUCY2C antibody
Western Blot analysis of GUCY2C expression in U-2 OS using.



Testing Data of anti-GUCY2C antibody
Detection limit for is ~0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GUCY2C. It may not necessarily be applicable to this product.

NCBI GI #	222080083
NCBI GeneID	2984
NCBI Accession #	NP_004954
UniProt Primary Accession #	P25092
UniProt Related Accession #	P25092
GenBank Nucleotide #	NP_004954.2
NCBI Official Full Name	heat-stable enterotoxin receptor
NCBI Official Synonym Full Names	guanylate cyclase 2C
NCBI Official Symbol	GUCY2C
NCBI Official Synonym Symbols	GC-C; STAR; DIAR6; GUC2C; MECIL; MUCIL
UniProt Protein Name	Heat-stable enterotoxin receptor
UniProt Synonym Protein Names	Guanylyl cyclase C; GC-C; Intestinal guanylate cyclase
Protein Family	Heat-stable enterotoxin receptor
UniProt Gene Name	GUCY2C
UniProt Synonym Gene Names	GUC2C; STAR; STA receptor; hSTAR; GC-C
NCBI Protein Information	heat-stable enterotoxin receptor
NCBI Summary for GUCY2C	This gene encodes a transmembrane protein that functions as a receptor for endogenous peptides guanylin and uroguanylin, and the heat-stable E. coli enterotoxin. The encoded protein activates the cystic fibrosis transmembrane conductance regulator. Mutations in this gene are associated with familial diarrhea (autosomal dominant) and meconium ileus (autosomal recessive). [provided by RefSeq, Nov 2016]
Research Articles on GUCY2C	**1.** Study reveals two discrete neuronal circuits expressing GUCY2C originating in the ventral premammillary nucleus in the hypothalamus and in the ventral tegmental area and substantia nigra in midbrain, which separately project to other sites throughout the brain.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/gucy2c/6134821