GUCY2C Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GUCY2C, Monoclonal Antibody
Full Product Name	GUCY2C (Guanylate Cyclase 2C (Heat Stable Enterotoxin Receptor), GUC2C, STAR) (APC)
Product Gene Name	anti-GUCY2C antibody
Product Synonym Names	Guanylate Cyclase 2C (Heat Stable Enterotoxin Receptor); GUC2C; STAR
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3D5
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes GUCY2C.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrif vial prior to removing the cap.
OMIM	601330
3D Structure	ModBase 3D Structure for P25092
Immunogen	GUCY2C (NP_004954, 24aa-133aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SQVSQNCHNGSYEISVLMMGNSAFAEPLKNLEDAVNEGLEIVRGRLQNAGLNVTVNATFMYSDGLIHNSGDCRSSTCEGLDLLRKISNAQRMGCVLIGPS
Conjugate	APC
Product Categories/Family for anti-GUCY2C antibody	Antibodies; Enzymes; Cyclase
Applications Tested/Suitable for anti-GUCY2C antibody	Western Blot (WB)
Application Notes for anti-GUCY2C antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GUCY2C antibody	MBS6167478 is an antibody targeting GUCY2C. Also known as GUCY2C (Guanylate Cyclase 2C (Heat Stable Enterotoxin Receptor), GUC2C, STAR) Mouse. Mouse monoclonal antibody raised against a partial recombinant GUCY2C.

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.

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]
UniProt Comments for GUCY2C	Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C). Also activated by the endogenous peptides guanylin and uroguanylin.
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.
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