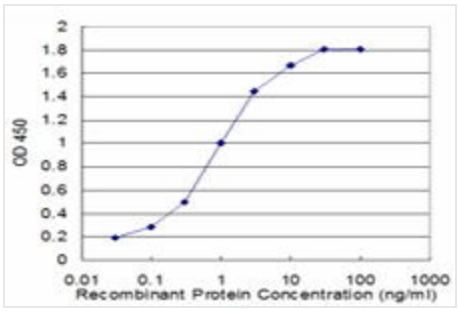
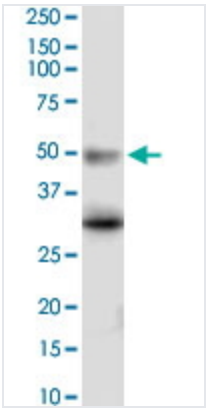
HTR5A Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HTR5A, Monoclonal Antibody
Full Product Name	HTR5A (5-hydroxytryptamine (Serotonin) Receptor 5A, 5-HT5A, MGC138226) (Biotin)
Product Gene Name	anti-HTR5A antibody
Product Synonym Names	5-hydroxytryptamine (Serotonin) Receptor 5A; 5-HT5A; MGC138226
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3D1
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes HTR5A.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,255 Da
OMIM	601305
3D Structure	ModBase 3D Structure for P47898
Immunogen	HTR5A (NP_076917, 223aa-282aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	IYKAAKFRVGSRKTNSVSPISEAVEVKDSAKQPQMVFTVRHATVTFQPEGDTWREQKEQR
Conjugate	Biotin
Product Categories/Family for anti-HTR5A antibody	Antibodies; Enzymes; Protease (Proteinase; Peptidase)
Applications Tested/Suitable for anti-HTR5A antibody	Western Blot (WB)
Application Notes for anti-HTR5A antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HTR5A antibody	The neurotransmitter serotonin (5-hydroxytryptamine, 5-HT) has been implicated in a wide range of psychiatric conditions and also has vasoconstrictive and vasodilatory effects. The gene described in this record is a member of 5-hydroxytryptamine (serotonin) receptor family and encodes a multi-pass membrane protein that functions as a receptor for 5-hydroxytryptamine and couples to G-proteins. This protein has been shown to function in part through the regulation of intracellular Ca2+ mobilization. [provided by RefSeq]
Other Notes	Small volumes of anti-HTR5A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly 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 dry ice fee may apply.
Searchable Terms for HTR5A purchase	MBS6172848 is an antibody targeting HTR5A. Also known as HTR5A (5-hydroxytryptamine (Serotonin) Receptor 5A, 5-HT5A, MGC138226) (Biotin). Host: Mouse.



Testing Data of anti-HTR5A antibody
Detection limit for recombinant GST tagged HTR5A is approximately 0.03ng/ml as a capture antibody.



Western Blot (WB) of anti-HTR5A antibody
HTR5A monoclonal antibody (M02), clone 3D1. Western Blot analysis of HTR5A expression in PC-12.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTR5A. It may not necessarily be applicable to this product.

NCBI GI #	13236497
NCBI GeneID	3361
NCBI Accession #	NP_076917
UniProt Primary Accession #	P47898
UniProt Secondary Accession #	Q2M2D2
UniProt Related Accession #	P47898
GenBank Nucleotide #	NM_024012.3
NCBI Official Full Name	5-hydroxytryptamine receptor 5A
NCBI Official Synonym Full Names	5-hydroxytryptamine (serotonin) receptor 5A, G protein-coupled
NCBI Official Symbol	HTR5A
NCBI Official Synonym Symbols	5-HT5A
UniProt Protein Name	5-hydroxytryptamine receptor 5A
UniProt Synonym Protein Names	Serotonin receptor 5A
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR5A
UniProt Synonym Gene Names	5-HT-5; 5-HT-5A; 5-HT5A
UniProt Entry Name	5HT5A_HUMAN
NCBI Protein Information	5-hydroxytryptamine receptor 5A

UniProt Comments for HTR5A	5-HT(5A): This is one of the several different receptors for 5- hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q36.1 Cellular Component: Golgi apparatus; rough endoplasmic reticulum; integral to plasma membrane; dendrite; plasma membrane; perikaryon Molecular Function: serotonin receptor activity Biological Process: G-protein signaling, coupled to cyclic nucleotide second messenger; G-protein coupled receptor protein signaling pathway; cAMP-mediated signaling; hippocampus development; serotonin receptor signaling pathway; response to estradiol stimulus
Research Articles on HTR5A	**1.** Results suggest that TPH1 218A/C and HTR5A 12A/T polymorphisms cannot predict treatment response in major depression
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