

For Research Use Only

HTR4 Recombinant monoclonal antibody

Catalog Number: 85083-3-RR



Basic Information

Catalog Number: 85083-3-RR	GenBank Accession Number: BC074755	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 3360	CloneNo.: 242771E8
Isotype: IgG	UNIPROT ID: Q13639	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: AG15226	Full Name: 5-hydroxytryptamine (serotonin) receptor 4	
	Calculated MW: 388 aa, 44 kDa	
	Observed MW: ~45 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	

Background Information

HTR4 (5-hydroxytryptamine receptor 4, 5-HT₄) is a G protein-coupled receptor (GPCR) belonging to the serotonin receptor family. Activated by the neurotransmitter serotonin (5-hydroxytryptamine, 5-HT), HTR4 primarily couples to Gs proteins, leading to stimulation of adenylyl cyclase, increased intracellular cAMP levels, and activation of downstream signaling pathways. HTR4 is widely expressed in the gastrointestinal tract, central nervous system, and cardiovascular system, where it regulates gastrointestinal motility, neurotransmission, learning and memory, and cardiac function. In the nervous system, HTR4 has been implicated in cognitive processes and neuroprotection, while in the gut it promotes intestinal peristalsis and secretion.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

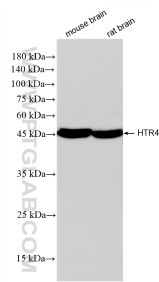
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85083-3-RR (HTR4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.