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OPRL1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant OPRL1.
Catalog # AT3151a

Product Information

Application	E
Primary Accession	P41146
Other Accession	BC038433
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2A11
Calculated MW	40693

Additional Information

Gene ID	4987
Other Names	Nociceptin receptor, Kappa-type 3 opioid receptor, KOR-3, Orphanin FQ receptor, OPRL1, OOR, ORL1
Target/Specificity	OPRL1 (AAH38433, 110 a.a. ~ 212 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	OPRL1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

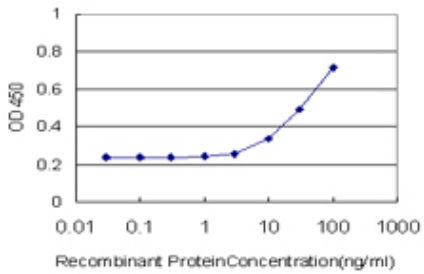
Background

The protein encoded by this gene is a G protein-coupled receptor whose expression can be induced by phytohemagglutinin. The encoded integral membrane protein is a receptor for the 17 aa neuropeptide nociceptin/orphanin FQ. This gene may be involved in the regulation of numerous brain activities, particularly instinctive and emotional behaviors. A promoter for this gene also functions as a promoter for another gene, regulator of G-protein signalling 19 (RGS19), located on the opposite strand. Two transcript variants encoding the same protein have been found for this gene.

References

A Pilot Study of Gene/Gene and Gene/Environment Interactions in Alzheimer Disease. Ghebranious N, et al. Clin Med Res, 2010 Aug 3. PMID 20682755.Evidence for association of two variants of the nociceptin/orphanin FQ receptor gene OPRL1 with vulnerability to develop opiate addiction in Caucasians. Briant JA, et al. Psychiatr Genet, 2010 Apr. PMID 20032820.Genetical genomic determinants of alcohol consumption in rats and humans. Tabakoff B, et al. BMC Biol, 2009 Oct 27. PMID 19874574.Expression of pronociceptin and its receptor is downregulated in the brain of human alcoholics. Kuzmin A, et al. Brain Res, 2009 Dec 11. PMID 19501074.A common variant in DRD3 receptor is associated with autism spectrum disorder. de Krom M, et al. Biol Psychiatry, 2009 Apr 1. PMID 19058789.

Images



Detection limit for recombinant GST tagged OPRL1 is approximately 3ng/ml as a capture antibody.

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