10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GABBR1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GABBR1.
Catalog # AT2138a

Product Information

Application	WB, IF, E
Primary Accession	Q9UBS5
Other Accession	BC050532
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2D7
Calculated MW	108320

Additional Information

Gene ID	2550
Other Names	Gamma-aminobutyric acid type B receptor subunit 1, GABA-B receptor 1, GABA-B-R1, GABA-BR1, GABABR1, Gb1, GABBR1, GPRC3A
Target/Specificity	GABBR1 (AAH50532, 52 a.a. ~ 151 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	GABBR1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

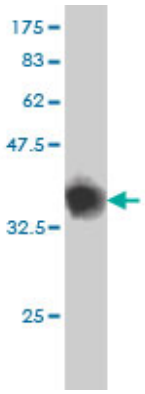
Background

Gamma-aminobutyric acid (GABA) is the main inhibitory neurotransmitter in the mammalian central nervous system. GABA exerts its effects through ionotropic [GABA(A/C)] receptors, to produce fast synaptic inhibition, and metabotropic [GABA(B)] receptors, to produce slow, prolonged inhibitory signals. The GABA(B) receptor consists of a heterodimer of two related 7-transmembrane receptors, GABA(B) receptor 1 and GABA(B) receptor 2. The GABA(B) receptor 1 gene is mapped to chromosome 6p21.3 within the HLA class I region close to the HLA-F gene. Susceptibility loci for multiple sclerosis, epilepsy, and schizophrenia have also been mapped in this region. Alternative splicing of this gene generates multiple transcript variants.

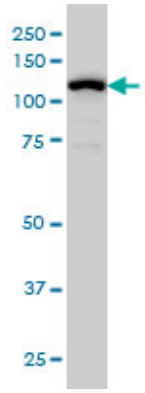
References

1.Conjoint occurrence of GABAB receptor antibodies in Lambert-Eaton myasthenic syndrome with antibodies to the voltage gated calcium channel.Onugoren MD, Rauschka H, Bien CGJ Neuroimmunol. 2014 May 29. pii: S0165-5728(14)00153-2. doi: 10.1016/j.jneuroim.2014.05.011.2.CORTICAL STIMULATION CAUSES LONG-TERM CHANGES IN H-REFLEXES AND SPINAL MOTONEURON GABA RECEPTORS.Wang Y, Chen Y, Chen L, Wolpaw JR, Chen XY.J Neurophysiol. 2012 Aug 29.3.Genome-wide association study reveals multiple nasopharyngeal carcinoma-associated loci within the HLA region at chromosome 6p21.3.Tse KP, Su WH, Chang KP, Tsang NM, Yu CJ, Tang P, See LC, Hsueh C, Yang ML, Hao SP, Li HY, Wang MH, Liao LP, Chen LC, Lin SR, Jorgensen TJ, Chang YS, Shugart YY.Am J Hum Genet. 2009 Aug;85(2):194-203. Epub 2009 Aug 6.

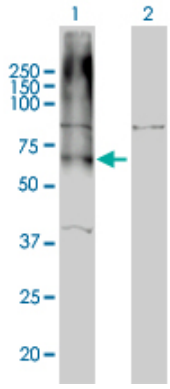
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

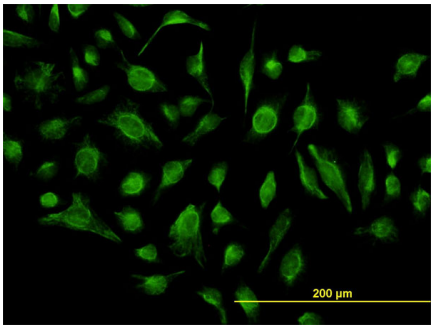


GABBR1 monoclonal antibody (M01), clone 2D7 Western Blot analysis of GABBR1 expression in IMR-32 ((Cat # AT2138a)

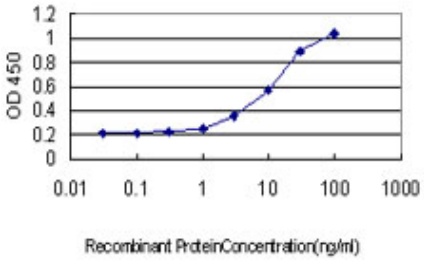


Western Blot analysis of GABBR1 expression in transfected 293T cell line by GABBR1 monoclonal antibody (M01), clone 2D7.

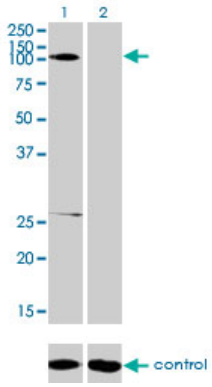
Lane 1: GABBR1 transfected lysate(95 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to GABBR1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged GABBR1 is approximately 0.3ng/ml as a capture antibody.



Western blot analysis of GABBR1 over-expressed 293 cell line, cotransfected with GABBR1 Validated Chimera RNAi ((Cat # AT2138a)