

Mouse anti-Human GABBR1 Monoclonal Antibody | anti-GABBR1 antibody

GABBR1 (Gamma-aminobutyric Acid Type B Receptor Subunit 1, GABA-B Receptor 1, GABA-B-R1, GABA-BR1, GABABR1, Gb1) (HRP)

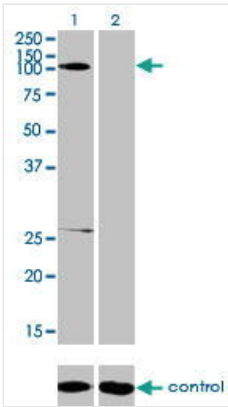
CATALOG # AAA25401	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

GABBR1; Monoclonal Antibody; GABBR1 (Gamma-aminobutyric Acid Type B Receptor Subunit 1; GABA-B Receptor 1; GABA-B-R1; GABA-BR1; GABABR1; Gb1) (HRP); anti-GABBR1 antibody

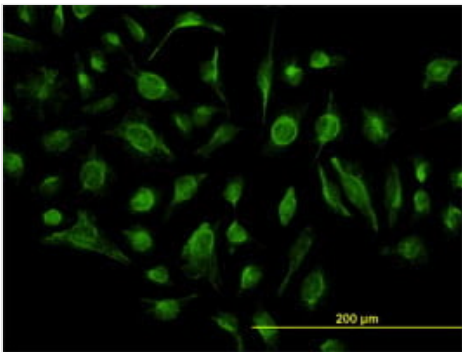
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2D7
Specificity	Recognizes human GABBR1.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Sequence Length	4185
Applicable Applications for anti-GABBR1 antibody	ELISA, WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa52-151 from human GABBR1 (AAH50532) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	AVYIGALFPMSGGWPGGQACQPAVEMALEDVNSRRDILPDYELKLIHHDSKCDPGQATKYLYELLYNDPIKIILMPGCSSVSTLVAEAARMWNLIVLSYG
Conjugate	HRP
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. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



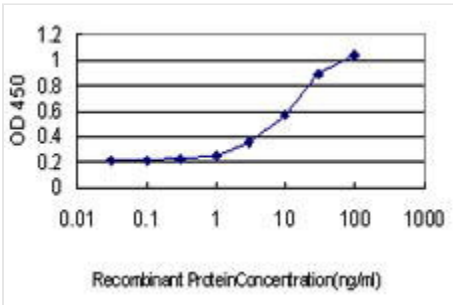
WB (Western Blot)

Western blot analysis of GABBR1 over-expressed 293 cell line, cotransfected with GABBR1 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with GABBR1 monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.



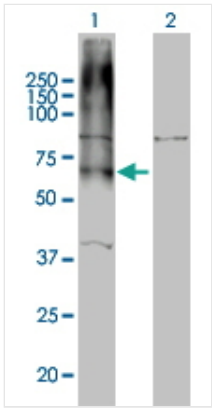
IF (Immunofluorescence)

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



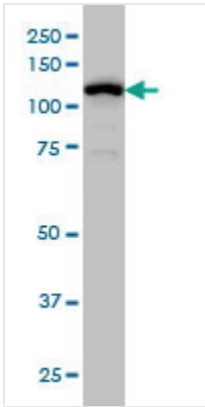
Application Data

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



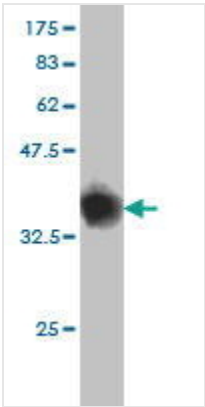
WB (Western Blot)

Western Blot analysis of GABBR1 expression in transfected 293T cell line by GABBR1 monoclonal antibody. Lane 1: GABBR1 transfected lysate (95kD). Lane 2: Non-transfected lysate.



WB (Western Blot)

GABBR1 monoclonal antibody, Western Blot analysis of GABBR1 expression in IMR-32.



WB (Western Blot)

Western Blot detection against Immunogen (36.63kD).

ADDITIONAL INFORMATION

Related Product Information for anti-GABBR1 antibody	GABA(B) receptor 1, a GABA(B) Receptor, forms a heterodimer with GABA(B) receptor 2 to mediate the effects of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA) in the central nervous system. Activation of this receptor leads to fast synaptic inhibition. Reduced GABA(B) receptor 1a-b expression is implicated in the pathophysiology of temporal-lobe epilepsy. In primates, GABA(B) receptors are widely distributed and are located to subserve both pre- and postsynaptic roles in controlling synaptic transmission in the primate basal ganglia. Five alternatively spliced protein isoforms of GABA(B) receptor 1 have been identified. GABA(B) receptor 1 is widely expressed, with highest levels reported in brain, and lower levels in gastrointestinal tract, kidney, and uterus. ESTs have been isolated from a wide variety of tissues, including adrenal, brain, breast, colon, embryo, eye, ganglion, head/neck, heart, heart/melanocyte/uterus, liver/spleen, lung, nerve, placenta, prostate, stomach, testis, and tonsil libraries, among others.
Product Categories/Family for anti-GABBR1 antibody	Antibodies; Receptors
References	1. 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. 2. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29791685
NCBI GeneID	2550
NCBI Official Full Name	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1, mRNA
NCBI Official Synonym Full Names	gamma-aminobutyric acid type B receptor subunit 1
NCBI Official Symbol	GABBR1
NCBI Official Synonym Symbols	GB1; GPRC3A; GABABR1; GABBR1-3
NCBI Protein Information	gamma-aminobutyric acid type B receptor subunit 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/gabbr1-antibody-clone-2d7-western-blot-elisa/25401>