BAI1 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	BAI1, Blocking Peptide
Full Product Name	BAI1 Antibody (C-term) Blocking Peptide
Product Gene Name	BAI1 blocking peptide
Product Synonym Names	Brain-specific angiogenesis inhibitor 1; BAI1
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human BAI1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BAI1 peptide (MBS9227612) is used for blocking the activity of BAI1 antibody (MBS9213488)
Molecular Weight	173,501 Da
OMIM	602682
Cellular Location	Cell membrane; Multi-pass membrane protein Note: Likely to be concentrated at cell-cell adhesion sites
Tissue Location	Specifically expressed in brain. Reduced or no expression is observed in some glioblastoma cell lines and cancer tissues. No expression in astrocytes
Related Product Information for BAI1 blocking peptide	Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Likely to be a potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53 signal in suppression of glioblastoma. May function in cell adhesion and signal transduction in the brain.
Other Notes	Small volumes of BAI1 blocking peptide 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 BAI1 purchase	MBS9227612 is a blocking peptide targeting BAI1. Also known as BAI1 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BAI1. It may not necessarily be applicable to this product.

NCBI GI #	410516865
NCBI GeneID	575
NCBI Accession #	O14514.2
UniProt Primary Accession #	O14514
UniProt Related Accession #	O14514
NCBI Official Full Name	Brain-specific angiogenesis inhibitor 1
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor B1
NCBI Official Symbol	ADGRB1
NCBI Official Synonym Symbols	BAI1; GDAIF

UniProt Protein Name	Brain-specific angiogenesis inhibitor 1
Protein Family	Brain-specific angiogenesis inhibitor
UniProt Gene Name	BAI1
UniProt Entry Name	BAI1_HUMAN
NCBI Protein Information	brain-specific angiogenesis inhibitor 1
NCBI Summary for BAI1	Angiogenesis is controlled by a local balance between stimulators and inhibitors of new vessel growth and is suppressed under normal physiologic conditions. Angiogenesis has been shown to be essential for growth and metastasis of solid tumors. In order to obtain blood supply for their growth, tumor cells are potently angiogenic and attract new vessels as results of increased secretion of inducers and decreased production of endogenous negative regulators. BAI1 contains at least one 'functional' p53-binding site within an intron, and its expression has been shown to be induced by wildtype p53. There are two other brain-specific angiogenesis inhibitor genes, designated BAI2 and BAI3 which along with BAI1 have similar tissue specificities and structures, however only BAI1 is transcriptionally regulated by p53. BAI1 is postulated to be a member of the secretin receptor family, an inhibitor of angiogenesis and a growth suppressor of glioblastomas [provided by RefSeq, Jul 2008]
UniProt Comments for BAI1	BAI1: Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Likely to be a potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53 signal in suppression of glioblastoma. May function in cell adhesion and signal transduction in the brain. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Protein type: Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 2 Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: integral to membrane; integral to plasma membrane; intercellular junction; plasma membrane Molecular Function: G-protein coupled receptor activity Biological Process: axonogenesis; negative regulation of cell proliferation; peripheral nervous system development; signal transduction
Research Articles on BAI1	**1.** Data suggest agonist-induced signal transduction via either BAI1/ADGRB1 or GPR56/ADGRG1 does not require conserved membrane-proximal stalk region; thus, it appears GAIN domain cleavage via autoproteolysis is not necessary for receptor activation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/bai1/9227612