MFGE8 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MFGE8, Blocking Peptide
Full Product Name	MFGE8 Peptide - middle region
Product Gene Name	MFGE8 blocking peptide
Product Synonym Gene Name	BA46; HMFG; MFGM; SED1; hP47; EDIL1; MFG-E8; SPAG10; OAcGD3S; HsT19888
Sequence	Synthetic peptide located within the following region: KEVTGIITQG ARNFGSVQFV ASYKVAYSND SANWTEYQDP RTGSSKIFPG
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	MFGE8 peptide (MBS3246293) is used for blocking the activity of MFGE8 antibody (MBS3221559)
Molecular Weight	35 kDa
OMIM	602281
Product Categories/Family for MFGE8 blocking peptide	Peptide
Related Product Information for MFGE8 blocking peptide	This is a synthetic peptide designed for use in combination with anti- MFGE8 Antibody, made Target Description: This gene encodes a preproprotein that is proteolytically processed to form multiple protein products. The major encoded protein product, lactadherin, is a membrane glycoprotein that promotes phagocytosis of apoptotic cells. This protein has also been implicated in wound healing, autoimmune disease, and cancer. Lactadherin can be further processed to form a smaller cleavage product, medin, which comprises the major protein component of aortic medial amyloid (AMA). Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of MFGE8 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 MFGE8 purchase	MBS3246293 is a blocking peptide targeting MFGE8. Also known as MFGE8 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MFGE8. It may not necessarily be applicable to this product.

NCBI GI #	167830477
NCBI GeneID	4240
NCBI Accession #	NP_001108086.1
UniProt Primary Accession #	Q08431
UniProt Related Accession #	Q08431
GenBank Nucleotide #	NM_001114614.2
NCBI Official Full Name	lactadherin isoform b

NCBI Official Synonym Full Names	milk fat globule-EGF factor 8 protein
NCBI Official Symbol	MFGE8
NCBI Official Synonym Symbols	BA46; HMFG; MFGM; SED1; hP47; EDIL1; MFG-E8; SPAG10; OAcGD3S; HsT19888
UniProt Protein Name	Lactadherin
UniProt Synonym Protein Names	Breast epithelial antigen BA46; HMFG; MFGM; Milk fat globule-EGF factor 8; MFG-E8; SED1Cleaved into the following 2 chains:Lactadherin short form; Medin
Protein Family	Lactadherin
UniProt Gene Name	MFGE8
UniProt Synonym Gene Names	MFG-E8
UniProt Entry Name	MFGM_HUMAN
NCBI Protein Information	lactadherin
NCBI Summary for MFGE8	This gene encodes a preproprotein that is proteolytically processed to form multiple protein products. The major encoded protein product, lactadherin, is a membrane glycoprotein that promotes phagocytosis of apoptotic cells. This protein has also been implicated in wound healing, autoimmune disease, and cancer. Lactadherin can be further processed to form a smaller cleavage product, medin, which comprises the major protein component of aortic medial amyloid (AMA). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
UniProt Comments for MFGE8	MFGE8: Plays an important role in the maintenance of intestinal epithelial homeostasis and the promotion of mucosal healing. Promotes VEGF-dependent neovascularization. Contributes to phagocytic removal of apoptotic cells in many tissues. Specific ligand for the alpha-v/beta-3 and alpha-v/beta-5 receptors. Also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner. Zona pellucida-binding protein which may play a role in gamete interaction. Binds specifically to rotavirus and inhibits its replication. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 15q25 Cellular Component: extrinsic to plasma membrane; extracellular matrix; extracellular space; membrane; extracellular region; vesicle; external side of plasma membrane Molecular Function: integrin binding; phosphatidylethanolamine binding; phosphatidylserine binding Biological Process: viral reproduction; single fertilization; phagocytosis, recognition; angiogenesis; phagocytosis, engulfment; cell adhesion
Research Articles on MFGE8	**1.** Esophageal cancer patients with high MFG-E8 expression had worse overall survival and relapse-free survival in the subgroup with preoperative chemotherapy. The abundant MFG-E8 expression in esophageal squamous cell carcinoma might have a negative influence on the long-term survival of patients after chemotherapy by affecting T-cell regulation in the tumor microenvironment.
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