Recombinant Human MFG-E8 Protein

Catalog No.: RP03233

www.abclonal.com

Sequence Information

Species
Human

Gene ID
4240

Swiss Prot
Q08431-1

Tags
C-His

Synonyms
P47,MP47,Mfgm,SED1,MFG-E8, AA408458,AI325141,lactadherin, MFGE8

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
42 kDa

Observed MW
45 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 500mM NaCl, pH 7.4, 10% gly. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

MFG-E8, also known as lactadherin and MFGE8, contains 1 EGF-like domain and 2 F5/8 type C domains. It also contains phosphatidylserine (PS) binding domain, as well as an Arginine-Glycine-Aspartic acid motif, which enables the binding to integrins. It binds PS, which is exposed on the surface of apoptotic cells. MFG-E8 is expressed in mammary epithelial cell surfaces and aortic media. Overexpression of MFG-E8 can be found in several carcinomas. MFG-E8 has opsonization of the apoptotic cells and binding to integrins on the surface of phagocytic cells. It also mediates the engulfment of the dead cell. MFG-E8 plays an important role in the maintenance of intestinal epithelial homeostasis and the promotion of mucosal healing. It promotes VEGF-dependent neovascularization and contributes to the phagocytic removal of apoptotic cells in many tissues. It also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner.

Basic Information

Description
Recombinant Human MFG-E8 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Leu24-Cys387) of Human MFGE8/BA46 (Accession #NP_005919.2) fused with a 6×His tag at the C-terminus.

Activity
When 5 x 10E4 cells/well are added to Recombinant Human MFG-E8 coated plates (12.5 μg/mL, 100 μL/well), 45-85% cells will adhere after 1 hour at 37℃.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

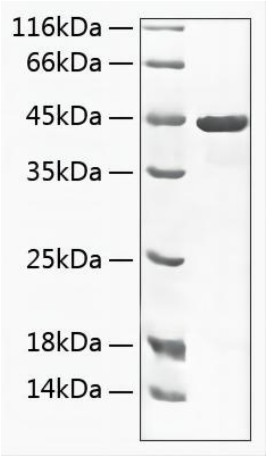
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human MFG-E8 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.