



Recombinant Protein Technical Manual
Recombinant Human MFG-E8/lactadherin/MFGE8
Protein (His Tag)(Active)
RPES2684

Product Data:

Product SKU: RPES2684

Size: 50µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: Q08431

Protein Information:

Molecular Mass: 42 kDa

AP Molecular Mass: 45 kDa

Tag: C-His

Bio-activity: When 5 x 10⁴ 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°C.

Purity: > 80 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: BA46;EDIL1;HMFG;hP47;HsT19888;MFG-E8;MFGM;OAcGD3S;SED1;SPAG10

Immunogen Information:

Sequence: Met 1-Cys 387

Background:

MFG-E8, also known as lactadherin and MFGE8, contains 1 EGF-like domain and 2 F5/8 type C domains. It also contains a 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 an 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 phagocytic removal of apoptotic cells in many tissues. It also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner.