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SANTA CRUZ BIOTECHNOLOGY, INC.

# MFG-E8 (m3): 293T Lysate: sc-127151

## BACKGROUND

Human milk fat globule (MFG) is abundant in human breast milk and is composed of secreted lipids encapsulated by plasma membranes from the epithelial cells of mammary glands. MFG membranes are composed of various glycoproteins that serve as markers for differentiated carcinomas. MFG-E8 (milk fat globule-EGF factor 8), also known as lactadherin or BA46, is a 387 amino acid peripheral membrane protein that localizes to the membrane of a variety of tissues, including mammary epithelial surfaces, and contains one EGF-like domain and two F5/8 type C domains. Functioning as a specific ligand for Integrin β5 and Integrin β3, MFG-E8 is thought to be involved in gamete interactions and cell attachment, possibly playing a role in fertilization and apoptosis. Additionally, MFG-E8 binds to rotavirus and inhibits its replication, thereby protecting the cell from viral infection. Overexpression of MFG-E8 is associated with breast cancer, suggesting that MFG-E8 may be related to tumorigenesis.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: Mfge8 (mouse) mapping to 7 D3.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

MFG-E8 (m3): 293T Lysate represents a lysate of mouse MFG-E8 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

MFG-E8 (m3): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive MFG-E8 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.