



Rabbit Anti- HumanMFGE8 Antibody

FOR RESEARCH USE ONLY.

PROUDUCT INFORMATION

Catalog Number: P3241Rb-h

Size: 0.2ml (200ug/ml)

Immunogen: Synthetic peptide-KLH

Ig type: rabbit IgG

BACKGROUND

Milk fat globule-EGF factor 8 protein (Mfge8), also known as lactadherin, is a protein which in humans is encoded by the MFGE8 gene. Mfge8 is secreted protein found in vertebrates, including mammals as well as birds. Mfge8 contains a phosphatidylserine (PS) binding domain, as well as an Arginine-Glycine- Aspartic acid motif, which enables the binding to integrins. Mfge8 binds PS, which is exposed on the surface of apoptotic cells. Opsonization of the apoptotic cells and binding to integrins on the surface of phagocytic cells, mediates the engulfment of the dead cell. MFGE8, when engaged by phospholipids, bound to cells via its RGD motif. It bound particularly strongly to cells expressing alpha-V-beta-3 integrin. The NIH 3T3 cell transformants that expressed a high level of alpha-V-beta-3 integrin engulfed apoptotic cells when MFGE8 was added.

SPEFICITY

Anti- MFGE8 antibody is a rabbit polyclonal antibody raised against MFGE8. This antibody has been selected for its ability to recognize MFGE8 in western blot , immunohistochemistry staining and ELISA.

APPLICATION western blot: 1:200-1000

Immunocytochemistry in formalin fixed cells: **1:100-500**

Immunohistochemistry in formalin fixed frozen section: **1:50-100**

Immunohistochemistry in paraffin section: **1:50-100**

Optimal working dilutions must be determined by end user.

CONTENTS 0.01M PBS, 30% glycerol.

STORAGE Store at 4° C for frequent use. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.

REFERENCE

1. Entrez Gene: MFGE8 milk fat globule-EGF factor 8 protein.
2. Collins C, Nehlin JO, Stubbs JD, Kowbel D, Kuo WL, Parry G (January 1997). Mapping of a newly discovered human gene homologous to the apoptosis associated-murine mammary protein, MFG-E8, to chromosome 15q25. Genomics 39 (1): 117-8. doi:10.1006/geno.1996.4425.