

Anti-MFGE8/Lactadherin Antibody

Catalog # ABO11249

Product Information

Application	WB, IHC-P
Primary Accession	Q08431
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Lactadherin(MFGE8) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4240
Other Names	Lactadherin, Breast epithelial antigen BA46, HMFG, MFGM, Milk fat globule-EGF factor 8, MFG-E8, SED1, Lactadherin short form, Medin, MFGE8
Calculated MW	43105
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Membrane ; Peripheral membrane protein . Secreted .
Tissue Specificity	Mammary epithelial cell surfaces and aortic media. Overexpressed in several carcinomas.
Source	Eukaryota
Protein Name	Lactadherin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Human Milk Fat Globule 1(165-180aa NGHEFDIHDVNKKHK).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 EGF-like domain.

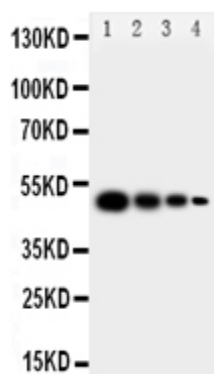
Protein Information

Name	MFGE8
Function	Plays an important role in the maintenance of intestinal epithelial homeostasis and the promotion of mucosal healing. Promotes VEGF-dependent neovascularization (By similarity). 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.
Cellular Location	Membrane; Peripheral membrane protein. Secreted. Cytoplasmic vesicle, secretory vesicle, acrosome membrane {ECO:0000250 UniProtKB:P79385}; Peripheral membrane protein {ECO:0000250 UniProtKB:P79385}. Note=Located in the acrosomal region of zona-pellucida bound sperm. {ECO:0000250 UniProtKB:P79385}
Tissue Location	Mammary epithelial cell surfaces and aortic media. Overexpressed in several carcinomas

Background

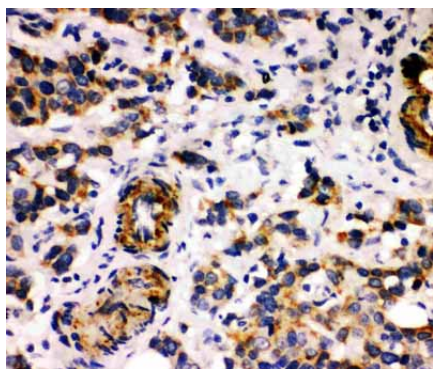
MFGE8(Milk Fat Globule-Egf Factor 8), also called as Lactadherin or SED1, is a protein which in humans is encoded by the MFGE8 gene. Mfge8 is secreted protein found in vertebrates, including mammals as well as birds. By fluorescence in situ hybridization, Collins et al.(1997) mapped the MFGE8 gene to chromosome 15q25. Hanayama et al.(2002) found that MFGE8 is a factor that links apoptotic cells to phagocytes. MFGE8 specifically bound to apoptotic cells by recognizing aminophospholipids such as phosphatidylserine. MFGE8, when engaged by phospholipids, bound to cells via its RGD motif. It bound particularly strongly to cells expressing alpha-V-beta-3 integrin. Bu et al.(2007) showed that Mfge8 was expressed in intestinal lamina propria macrophages in mice. Using a wound-healing assay, they showed that Mfge8 promoted migration of intestinal epithelial cells through a PKC-epsilon(PRKCE)-dependent mechanism.

Images



Anti-Human Milk Fat Globule 1 antibody, ABO11249,
Western blotting
Recombinant Protein Detection Source:
E.coli derived -recombinant human MEGF8, 50.2KD(162aa
tag+ S28-A317)
Lane 1: Recombinant Human MEGF8 Protein 10ng
Lane 2: Recombinant Human MEGF8 Protein 5ng
Lane 3: Recombinant Human MEGF8 Protein 2.5ng
Lane 4: Recombinant Human MEGF8 Protein 1.25ng

Anti-Human Milk Fat Globule 1 antibody, ABO11249,
IHC(P)IHC(P): Human Mammary Cancer Tissue



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