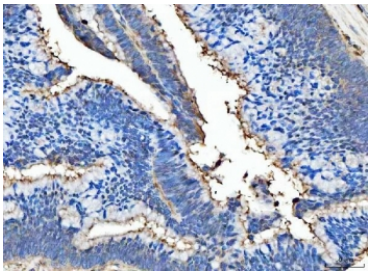
MFG-E8 Antibody / Lactadherin / Milk Fat Globule (RQ7609)

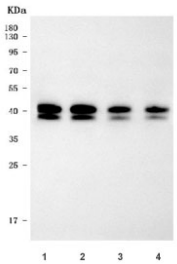
Catalog No.	Formulation	Size
RQ7609	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q08431
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This MFG-E8 antibody is available for research use only.



IHC staining of FFPE human colorectal adenocarcinoma tissue with MFG-E8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human milk (5ul), 2) human milk (5ul), 3) human milk (2.5ul) and 4) human milk (2.5ul) with Lactadherin antibody. Expected molecular weight: 30-66 kDa depending glycosylation level.

Description

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.

Application Notes

Optimal dilution of the MFG-E8 antibody should be determined by the researcher.

Immunogen

Amino acids FKVAYSLNGHEFDFIHDVNKKHKE from the human protein were used as the immunogen for the MFG-E8 antibody.

Storage

After reconstitution, the MFG-E8 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.