Datasheet for ABIN3044017

anti-MFGE8 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	MFGE8
Binding Specificity:	AA 165-180, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MFGE8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Milk Fat Globule 1/MFGE8 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Human Milk Fat Globule 1.
Sequence:	NGHEFDFIHD VNKKHK
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Milk Fat Globule 1/MFGE8 Antibody (ABIN3044017). Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	MFGE8
Alternative Name:	MFGE8 (MFGE8 Products)
Background:	Synonyms: Lactadherin,Breast epithelial antigen BA46,HMFG,MFGM,Milk fat globule-EGF factor 8,MFG-E8,SED1,Lactadherin short form,Medin,MFGE8, Tissue Specificity: 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. Sequence Similarities: Contains 1 EGF-like domain.
Molecular Weight:	43 kDa
UniProt:	Q08431
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human 1. Bu, H.-F., Zuo, X.-L., Wang, X., Ensslin, M. A., Koti, V., Hsueh, W., Raymond, A. S., Shur, B. D., Tan, X.-D. Milk fat globule-EGF factor 8/lactadherin plays a crucial role in maintenance and repair of murine intestinal epithelium. J. Clin. Invest. 117: 3673-3683, 2007. 2. Collins, C., Nehlin, J. O., Stubbs, J. D., Kowbel, D., Kuo, W.-L., Parry, G. Mapping of a newly discovered human gene homologous to the apoptosis associated-murine mammary protein, MFG-E8, to chromosome

Application Details

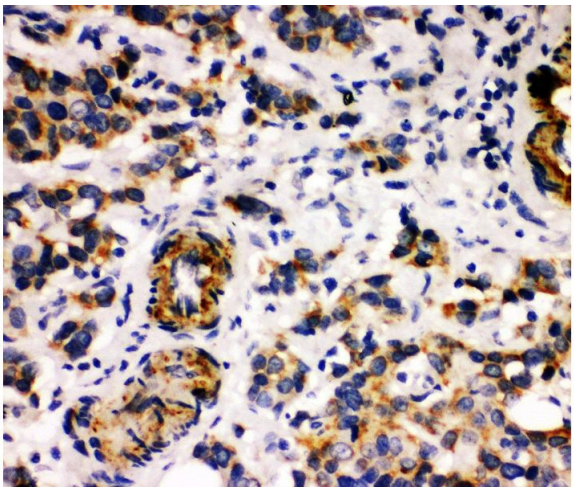
	15q25. Genomics 39: 117-118, 1997. 3. Hanayama, R., Tanaka, M., Miwa, K., Shinohara, A., Iwamatsu, A., Nagata, S. Identification of a factor that links apoptotic cells to phagocytes. Nature 417: 182-187, 2002.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

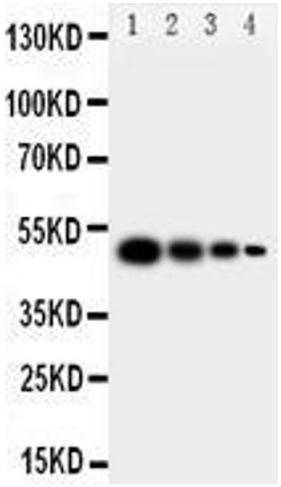
Publications

Product cited in:	Becker-Dreps, Choi, Stamper, Vilchez, Velasquez, Moon, Hudgens, Jiang, Permar: "Innate Immune Factors in Mothers' Breast Milk and Their Lack of Association With Rotavirus Vaccine Immunogenicity in Nicaraguan Infants." in: **Journal of the Pediatric Infectious Diseases Society**, Vol. 6, Issue 1, pp. 87-90, (2018) (PubMed).



Immunohistochemistry

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



Western Blotting

Image 2. Anti-Human Milk Fat Globule 1 antibody, Western blottingRecombinant 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

