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# Anti-Milk Fat Globule 1/Mfge8 Antibody Picoband®

**Catalog Number:** A02518-1

## About Mfge8

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.

## Overview

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| Product Name | Anti-Milk Fat Globule 1/Mfge8 Antibody Picoband® |
| Reactive Species | Mouse, Rat |
| Description | Boster Bio Anti-Milk Fat Globule 1/Mfge8 Antibody Picoband® catalog # A02518-1. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat. 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. |
| Application | ELISA, Flow Cytometry, IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4. |
| Storage Instructions | 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. |
| Host | Rabbit |
| Uniprot ID | P21956 |

## Technical Details

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| Immunogen | E.coli-derived mouse Milk Fat Globule 1/Mfge8 recombinant protein (Position: A23-C463). Mouse Mfge8 shares 86.2% amino acid (aa) sequence identity with rat Mfge8. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |

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| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5ug/ml, Mouse, Rat<br>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse<br>Flow Cytometry (Fixed), 1-3ug/1x$10^6$ cells, Mouse<br>ELISA, 0.1-0.5ug/ml, - |

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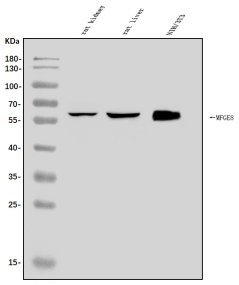
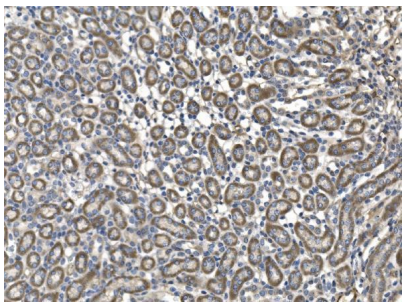
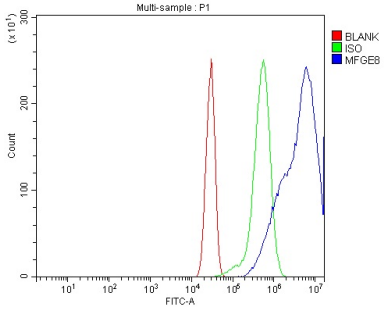
# Anti-Milk Fat Globule 1/Mfge8 Antibody Picoband® (A02518-1) Images




Western blot analysis of Milk Fat Globule 1/Mfge8 using anti-Milk Fat Globule 1/Mfge8 antibody (A02518-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: rat kidney tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse NIH/3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Milk Fat Globule 1/Mfge8 antigen affinity purified polyclonal antibody (Catalog # A02518-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Milk Fat Globule 1/Mfge8 at approximately 65-70KD. The expected band size for Milk Fat Globule 1/Mfge8 is at 65-70KD.



IHC analysis of Milk Fat Globule 1/Mfge8 using anti-Milk Fat Globule 1/Mfge8 antibody (A02518-1). Milk Fat Globule 1/Mfge8 was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Milk Fat Globule 1/Mfge8 Antibody (A02518-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.




Flow Cytometry analysis of HEPA1-6 cells using anti-Milk Fat Globule 1/Mfge8 antibody (A02518-1). Overlay histogram showing HEPA1-6 cells stained with A02518-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Milk Fat Globule 1/Mfge8 Antibody (A02518-1, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

## Submit a product review to Biocompare.com

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For Research Use Only. Not for use in diagnostic procedures.