

## Anti-F4/80/Adgre1 Antibody

Catalog Number: A08751

### About Adgre1

Predicted to enable G protein-coupled receptor activity. Predicted to be involved in adenylate cyclase-activating G protein-coupled receptor signaling pathway. Predicted to act upstream of or within G protein-coupled receptor signaling pathway and adaptive immune response. Located in external side of plasma membrane. Is expressed in several structures, including cardiovascular system; central nervous system; genitourinary system; hemolymphoid system; and intestine. Orthologous to human ADGRE1 (adhesion G protein-coupled receptor E1).

### Overview

Product Name	Anti-F4/80/Adgre1 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-F4/80/Adgre1 Antibody catalog # A08751. Tested in IF, IHC applications. This antibody reacts with Mouse, Rat.
Application	IF, IHC
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml stabilizing protein and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	At -20°C for one year, at 4°C for one month. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q61549

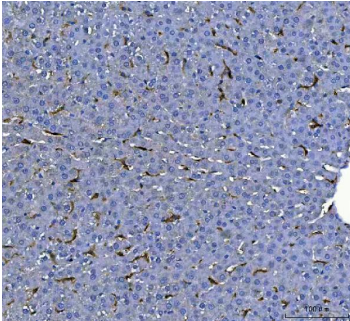
### Technical Details

Immunogen	E.coli-derived mouse F4/80/Adgre1 recombinant protein (Position: G27-S230).
Recommended Detection Systems	Boster recommends 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
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.

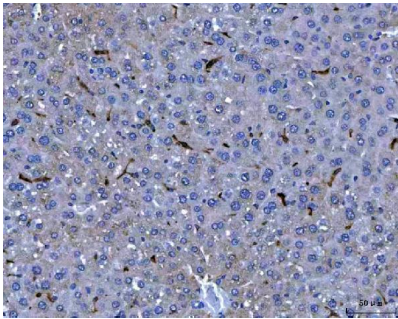
Suggested Dilutions

Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Mouse, Rat  
Immunofluorescence, 5 µg/ml, Mouse, Rat

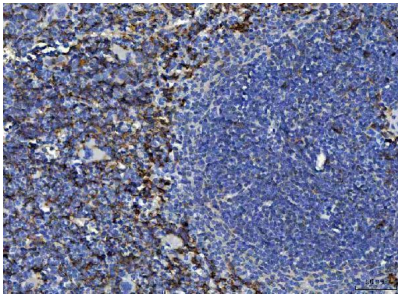
## Anti-F4/80/Adgre1 Antibody (A08751) Images



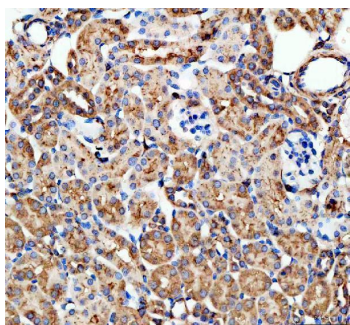
IHC analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



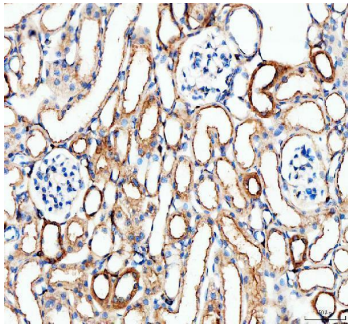
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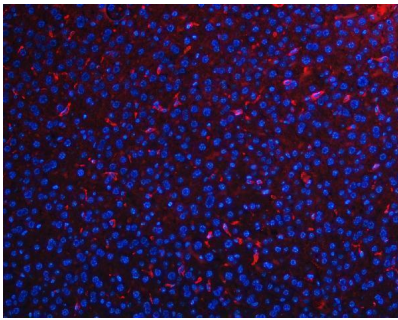
IHC analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



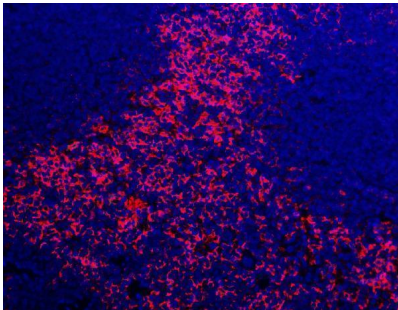
IHC analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



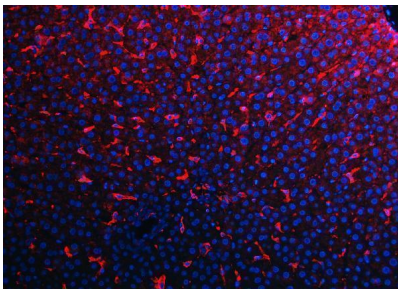
IHC analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

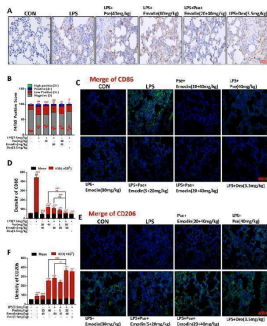


IF analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. DyLight®550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

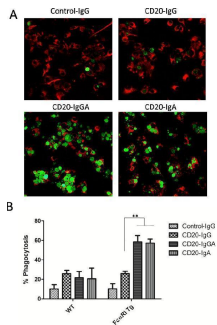


IF analysis of F4/80/Adgre1 using anti-F4/80/Adgre1 antibody (A08751). F4/80/Adgre1 was detected in a paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-F4/80/Adgre1 Antibody (A08751) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

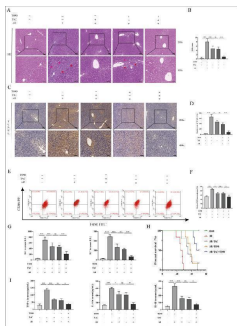
Pseudoephedrine + emodin inhibited (M1) macrophage and activated (M2) macrophage in LPS-induced rats lung tissue. A F4/80 expression was determined using



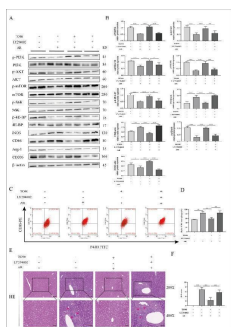
immunohistochemistry (n = 3). B F4/80 positive score was determined using ImageJ: negative (0), low positive (1+), positive (2+), high positive (3+). C - F CD86, CD206 expression was determined using immunofluorescence (n = 5). Data are expressed as mean ± S.D. ## p<0.01, ### p<0.001 vs. control group. \*\*p<0.01, \*\*\*p<0.001 vs. LPS alone group. +++ p<0.001 vs. combined treatment group (20 + 40 mg/kg) Index in PubMed under a CC BY license. PMID: 35123524



ADCP assays with BMDMs. In vitro assay to determine elimination of Raji cells by macrophages. (A) BMDMs from WT and FcalphaRI Tg C57BL/6 mice were incubated with CFSE-labeled Raji cells at an E:T ratio of 5:1 in the presence of 10 ug/mL anti-CD20 antibodies. After a 4-h incubation, cells were transferred to a new tube and visualized via confocal microscopy. Representative images of ADCP mediated by anti-CD20 antibodies are shown. (B) BMDMs were labeled with APC-F4/80 antibodies and cocultured with CFSE-labeled Raji cells in the presence of the indicated antibodies. Phagocytosis of Raji cells was analyzed by FACS and quantified as the percentage of double-positive cells relative to total CFSE-positive cells and F4/80+ cells. \*\* P < 0.01 using unpaired two-tailed t tests. Index in PubMed under a CC BY license. PMID: 28454118

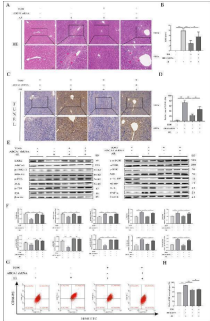


Effects of co-adjustment of TO901317 and tacrolimus on AR following liver transplantation in rats. A - D Hepatic pathological changes and apoptosis following co-adjustment with TO901317 and tacrolimus during AR (magnification, ×200; scale bar = 100 um) (The area indicated by the red arrow shows inflammatory cell infiltration in the portal area and hepatic sinusoids, cholangitis and venulitis, as well as hepatic parenchymal cell damage). E , F The percentages of M1-type polarized macrophages in different groups were detected by flow cytometry, macrophages were separated with FITC-labeled F4/80, and M1-type polarization was separated with PE-labeled CD86. G ALT and AST levels in rat serum. H Survival rate of rats. n = 6 for each group. I Levels of TNF-alpha IL-6 and IL-1beta in serum of different groups. Differences among groups were assessed by one-way ANOVA. n = 6, ns P > 0.05, \*P



LXRalpha improves AR after liver transplantation by activating PI3K/AKT/mTOR pathway to regulate macrophage polarization. A , B Protein expression levels of PI3K/AKT/mTOR signaling pathway factors. C , D Detection of the proportion of M1 polarization by flow cytometry, macrophages were separated with FITC-labeled F4/80, and M1-type polarization was separated with PE-labeled CD86. E , F Pathological changes in the liver following treatment with TO901317 or LY294002 during AR (magnification, ×200; scale bar = 100 um) (The area indicated by the red arrow shows inflammatory cell infiltration in the portal area and hepatic sinusoids, cholangitis and venulitis, as well as

hepatic parenchymal cell damage). One-way ANOVA was used to determine the statistical differences between groups. n = 6, \*P



Effects of ABCA1 in vivo. A , B Pathological changes in the liver following treatment with TO901317 and ABCA1 shRNA during AR (magnification,  $\times 200/400$ ; scale bar = 100  $\mu\text{m}$ ) (The area indicated by the red arrow shows inflammatory cell infiltration in the portal area and hepatic sinusoids, cholangitis and venulitis, as well as hepatic parenchymal cell damage). C , D Hepatic apoptosis following treatment with TO901317 and ABCA1 shRNA during AR (magnification,  $\times 200$ ; scale bar = 100  $\mu\text{m}$ ). E , F Protein expression levels of LXRalpha/ABCA1/MAPK and mTOR signaling pathway factors. E Detection of the proportion of M1 polarization by flow cytometry, macrophages were separated with FITC-labeled F4/80, and M1-type polarization was separated with PE-labeled CD86. One-way ANOVA was used to determine the statistical differences between groups. n = 6, ns P > 0.05, \*P

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