

Anti-CD103/Itgae Antibody Picoband™

Catalog Number: A07091-2

About Itgae

ITGAE(INTEGRIN, ALPHA-E), also known as CD103, is an integrin protein that in human is encoded by the ITGAE gene. The ITGAE gene is mapped to chromosome 17p13 by inclusion within a BAC contig. ITGAE is expressed widely on intraepithelial lymphocyte(IEL) T cells(both alphabeta T cells and gammadelta T cells) and on some peripheral regulatory T cells(Tregs) which is important for decreasing the immune response and appears to play a crucial role in the prevention of autoimmune diseases. ITGAE shares overall homology with other alpha integrins but has a unique 55-amino acid "extra" region located just N-terminal to the I domain that contains 18 consecutive charged residues and a proteolytic cleavage site.

Overview

Product Name	Anti-CD103/Itgae Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-CD103/Itgae Antibody Picoband™ catalog # A07091-2. Tested in ELISA, IHC applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q60677

Technical Details

Immunogen	E.coli-derived mouse CD103/Itgae recombinant protein (Position: F20-E1061).
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	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

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

Direct ELISA, 0.1-0.5 ug/ml, Mouse

Anti-CD103/Itgae Antibody Picoband™ (A07091-2) Images

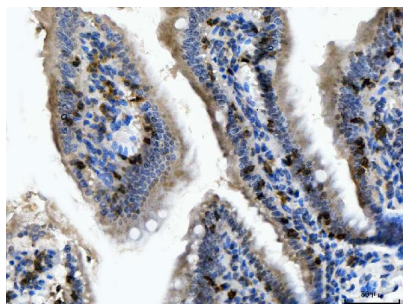


Figure 1. IHC analysis of CD103/Itgae using anti-CD103/Itgae antibody (A07091-2).

CD103/Itgae was detected in a paraffin-embedded section of mouse colon 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-CD103/Itgae Antibody (A07091-2) 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.

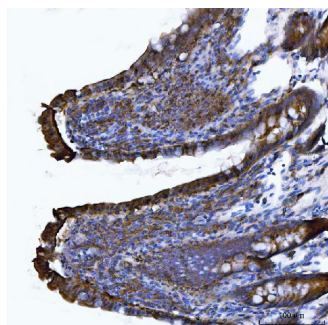


Figure 2. IHC analysis of CD103/Itgae using anti-CD103/Itgae antibody (A07091-2).

CD103/Itgae was detected in a paraffin-embedded section of rat colon 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-CD103/Itgae Antibody (A07091-2) 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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