

Anti-MAFA Picoband™ Antibody

Catalog Number: A05251-1

About MAFA

MAFA is a transcription factor that binds RIPE3b, a conserved enhancer element that regulates pancreatic beta cell-specific expression of the insulin gene. It is mapped to 8q24.3.

Overview

Product Name	Anti-MAFA Picoband™ Antibody	
Reactive Species	Human, Mouse	
Description	Boster Bio Anti-MAFA Picoband™ Antibody catalog # A05251-1. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse.	
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB	
Clonality	Polyclonal	
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na $_2$ HPO $_4$, 0.05mg NaN $_3$.	
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	Q8NHW3	

Technical Details

Immunogen	E.coli-derived human MAFA recombinant protein (Position: A9-D308).		
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) and ICC.		
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		



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optimal dilution	on ratio for your samples.
Some PubMed	d article(s) citing the expression level of this target are as follows:
Boster Bio's in	nternal QC testing used:
Western blot,	0.25-0.5ug/ml, Human
Immunohisto	chemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse
Immunocytoc	hemistry/Immunofluorescence, 2ug/ml, Human
Flow Cytome	try, 1-3ug/1x10 ⁶ cells, Human
	0.1-0.5ug/ml, Human



Anti-MAFA Picoband™ Antibody (A05251-1) Images

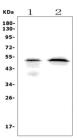


Figure 1. Western blot analysis of MAFA using anti-MAFA antibody (A05251-1).

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 50ug of sample under reducing conditions.

Lane 1: human HEK293 whole cell lysates, Lane 2: human K562 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-MAFA antigen affinity purified polyclonal antibody (Catalog # A05251-1) 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 MAFA at approximately 50KD. The expected band size for MAFA is at 37KD.



Figure 2. IHC analysis of MAFA using anti-MAFA antibody (A05251-1).

MAFA was detected in paraffin-embedded section of human oesophagus squama cancer 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 1ug/ml rabbit anti-MAFA Antibody (A05251-1) 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.

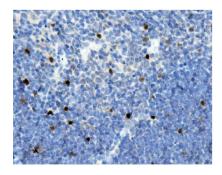


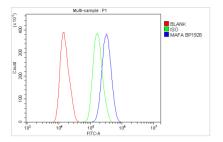
Figure 3. IHC analysis of MAFA using anti-MAFA antibody (A05251-1).

MAFA was detected in paraffin-embedded section of mouse thymus 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 1ug/ml rabbit anti-MAFA Antibody (A05251-1) 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.

Figure 4. Flow Cytometry analysis of SiHa cells using anti-MAFA antibody (A05251-1).

Overlay histogram showing SiHa cells stained with A05251-1 (Blue line). The cells were blocked with 10% normal goat





serum. And then incubated with rabbit anti-MAFA Antibody $(A05251-1, 1ug/1x10^6 \text{ cells})$ for 30 min at 20°C . DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, $5-10ug/1x10^6 \text{ cells})$ was used as secondary antibody for 30 minutes at 20°C . Isotype control antibody (Green line) was rabbit IgG $(1ug/1x10^6)$ used under the same conditions. Unlabelled sample (Red line) was also used as a control.

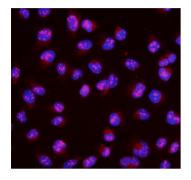


Figure 5. IF analysis of MAFA using anti-MAFA antibody (A05251-1).

MAFA was detected in immunocytochemical section of U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-MAFA Antibody (A05251-1) overnight at 4°C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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Anti-MAFA ™ Antibody