

Anti-MAFA Antibody

Catalog # ABO12745

Specification

Anti-MAFA Antibody - Product Information

Application WB
Primary Accession Q8NHW3
Host Rabbit
Reactivity Human, Rat
Clonality Polyclonal
Format Lyophilized

Description

Rabbit IgG polyclonal antibody for Transcription factor MafA(MAFA) detection. Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MAFA Antibody - Additional Information

Gene ID 389692

Other Names

Transcription factor MafA, Pancreatic beta-cell-specific transcriptional activator, Transcription factor RIPE3b1, V-maf musculoaponeurotic fibrosarcoma oncogene homolog A, MAFA

Calculated MW 36982 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Rat, Human

Subcellular Localization

Nucleus . Detected in nuclei of pancreas islet beta cells. .

Protein Name

Transcription factor MafA

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human MAFA(136-167aa EDAVEALIGSGHHGAHHGAHHPAAAAAYEAFR), identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Cross Reactivity



No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the bZIP family. Maf subfamily.

Anti-MAFA Antibody - Protein Information

Name MAFA

Function

Transcription factor that activates insulin gene expression (PubMed:12011435, PubMed:15993959). Acts synergistically with NEUROD1/BETA2 and PDX1 (PubMed:15993959). Binds the insulin enhancer C1/RIPE3b element (PubMed:<a

 $href="http://www.uniprot.org/citations/12011435" \ target="_blank">12011435). Binds to consensus TRE-type MARE 5'-TGCTGACTCAGCA-3' DNA sequence (PubMed:<a$

href="http://www.uniprot.org/citations/23148532" target="_blank">23148532, PubMed:29339498).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12011435, ECO:0000269|PubMed:12917329}

Tissue Location

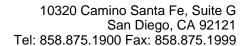
Expressed in the islets of Langerhans (at protein level).

Anti-MAFA Antibody - Protocols

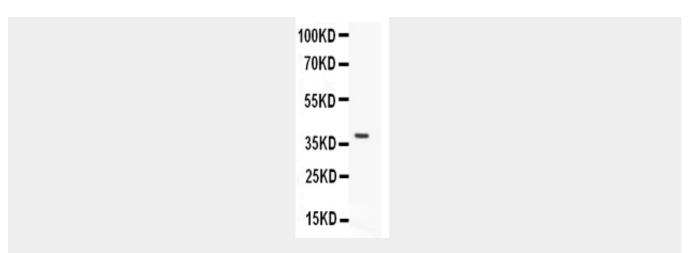
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MAFA Antibody - Images







Anti- MAFA antibody, ABO12745, Western blottingAll lanes: Anti MAFA (ABO12745) at 0.5ug/mlWB: Rat Cardiac Muscle Tissue Lysate at 50ugPredicted bind size: 37KDObserved bind size: 37KD

Anti-MAFA Antibody - Background

MAFA is a transcription factor that binds RIPE3b, a conserved enhancer element that regulates pancreatic beta cell-specific expression of the insulin gene. MAFA plays a key role in coordinating and controlling the level of insulin gene expression in islet beta cells. It is located in 8q24.3. The intracellular domain of MAFA contains a single immunoreceptor tyrosine-based inhibitory motif (ITIM), which classifies MAFA as a member of an inhibitory receptor superfamily. The inhibitory capacity of MAFA is best defined in mast cells, where MAFA keeps in check the antigen-induced (i.e. Fc epsilon RI-induced) secretion ofinflammatory mediators.