


Product datasheet

Anti-MafA antibody ab17976

★★★★★ [7 Abreviews](#) [5 References](#) [2 Images](#)

Overview

Product name	Anti-MafA antibody
Description	Rabbit polyclonal to MafA
Host species	Rabbit
Tested applications	Suitable for: WB, EMSA
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Mouse MafA (C terminal). Database link: Q8CF90
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab17976 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000.
EMSA		Use a concentration of 0.05 - 0.25 mg/ml.

Target

Function

Acts as a transcriptional factor. Specifically binds the insulin enhancer element RIPE3b and activates insulin gene expression. Cooperates synergistically with NEUROD1 and PDX1. Phosphorylation by GSK3 increases its transcriptional activity and is required for its oncogenic activity. Involved either as an oncogene or as a tumor suppressor, depending on the cell context.

Sequence similarities

Belongs to the bZIP family. Maf subfamily.
Contains 1 bZIP domain.

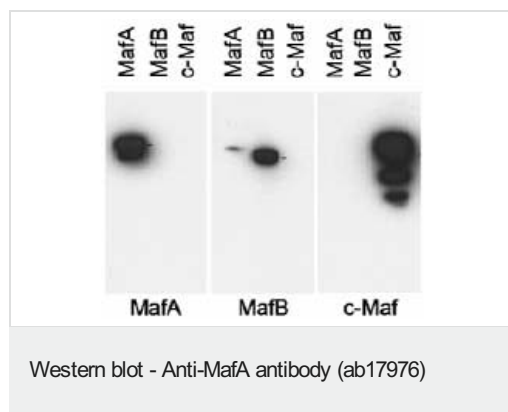
Post-translational modifications

Ubiquitinated, leading to its degradation by the proteasome.
Ser-14 and Ser-65 appear to be the major phosphorylation sites. Phosphorylated by MAPK13 on serine and threonine residues (Probable). Phosphorylation by GSK3 requires prior phosphorylation of Ser-65 by another kinase. Phosphorylation proceeds then from Ser-61 to Thr-57, Thr-53 and Ser-49. GSK3-mediated phosphorylation increases its transcriptional activity through the recruitment of the coactivator PCAF, is required for its transforming activity and leads to its degradation through an ubiquitin/proteasome-dependent pathway.

Cellular localization

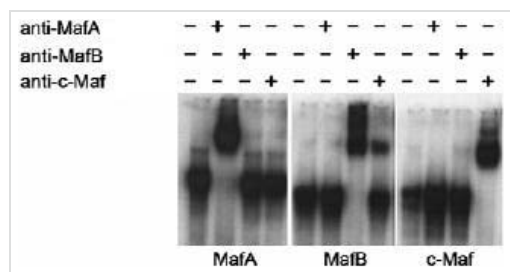
Nucleus. Detected in nuclei of pancreas islet beta cells.

Images



Detection of MafA, MafB and cMaf by Western Blot. Samples:

Nuclear extract (6 µg) from HeLa cells transfected with MafA, MafB or cMaf expression constructs. Antibodies: Affinity purified anti-MafA antibody, anti-MafB Antibody or anti-c-Maf antibody. Each antibody was used at 0.5 µg/ml. Detection: Chemiluminescence with a 5 second exposure.



Electrophoretic Mobility Shift Assay - Anti-MafA
antibody (ab17976)

Electrophoretic Mobility Shift of MafA, MafB and c-Maf.

Samples: Nuclear extract (6 ug) from HeLa cells transfected with MafA, MafB or c-Maf expression constructs. Antibodies: Affinity purified anti-MafA antibody BL1069, anti-MafB Antibody or anti-c-Maf antibody.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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