


Anti-MafA antibody ab26405

★★★★★ [9 Abreviews](#) [16 References](#) [2 Images](#)

Overview

Product name	Anti-MafA antibody
Description	Rabbit polyclonal to MafA
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab26405 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
ICC/IF	★★★★★ (2)	Use at an assay dependent concentration.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 36 kDa (predicted molecular weight: 37 kDa). Human MAFA has a predicted molecular weight of 37 kDa (Swiss-Prot data), however publications have shown the human protein to be detected at 47 kDa according to reference PMID 12011435, http://www.pnas.org/cgi/content/full/99/10/6737 . Our data shows ab26405 to detect a band at 36 kDa in human brain,
IHC-P	★★★★★ (2)	Use a concentration of 0.8 - 4 µg/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.

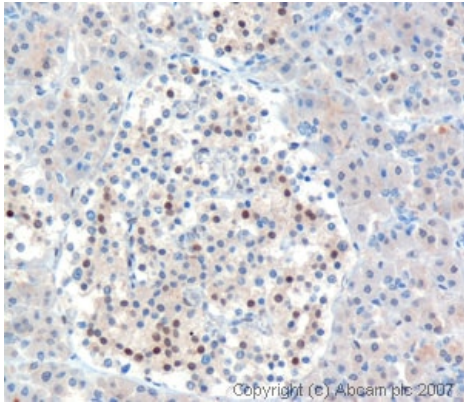
Post-translational modifications

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

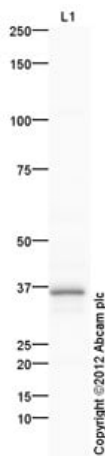
Nucleus. Detected in nuclei of pancreas islet beta cells.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MafA antibody (ab26405)

The image shows human pancreas tissue in which some cells exhibit nuclear staining. The antigen retrieval method used was Tris EDTA pH9.



Western blot - Anti-MafA antibody (ab26405)

Anti-MafA antibody (ab26405) at 1 µg/ml + Brain (Human) Tissue Lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Performed under reducing conditions.

Predicted band size: 37 kDa

Observed band size: 36 kDa

Human MAFA has a predicted molecular weight of 37 kDa (Swiss-Prot data). Some publications suggest that the human protein should be detected at 47 kDa (PMID 12011435). Our data shows that ab26405 detects a band at 36 kDa in human brain, which is similar to that seen in other publications [PMID:14680841, PMID:18159220 (expression profile)]. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors