

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human c-Maf in direct ELISA and Western Blot.                                |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 883926                                    |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                           |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human c-Maf<br>Met1-Phe372<br>Accession # O75444 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm      |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                         |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                      |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

c-Maf is an approximately 40 kDa transcriptional regulator that contains one bZIP domain. It can associate into homodimers and heterodimers with other basic leucine zipper transcription factors. c-Maf plays an important role in fetal erythropoiesis, lens development, mechanosensory neuron development, and the differentiation of chondrocytes and osteoblasts. In the pancreas, c-Maf promotes the transcription of glucagon in alpha cells and insulin in beta cells. In immune cells, it controls Th17 and Treg differentiation by regulating the transcription of IL-4, IL-12 p35, IL-21, IL-22, and GM-CSF. Human c-Maf shares 97% amino acid sequence identity with mouse and rat c-Maf. Alternative splicing of human c-Maf generates a long isoform with a 30 aa substitution for the C-terminal methionine.

## PRODUCT SPECIFIC NOTICES

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