



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# c-Maf (E-7): sc-518062

## BACKGROUND

Members of the Maf family of basic region/leucine zipper (bZIP) transcription factors affect transcription in either a positive or negative fashion, depending on their particular protein partner and the context of the target promoter. c-Maf (Maf-2) and the closely related family members, neural retina leucine zipper (Nrl), L-Maf and Krm11/MafB (Maf-1), all bind to T-MARE sites and have been implicated in a wide variety of developmental and physiologic roles. The three small Maf family proteins (MafF, MafG and MafK) are components of NF-E2 that function as heterodimers with the large tissue-restricted subunit of NF-E2, called p45, and they are implicated in the transcriptional regulation of many erythroid-specific genes. MafB is expressed in a wide variety of tissues and encodes a protein containing a typical bZIP motif in its carboxy-terminal region. As a transcriptional activator, MafB plays a pivotal role in regulating lineage-specific gene expression during hematopoiesis by repressing Ets-1-mediated transcription of key erythroid-specific genes in myeloid cells. c-Maf interacts with the c-Myb DNA binding domain and forms Myb-Maf complexes, which, in turn, mediate the cooperative interactions between c-Myb and Ets-1 during early myeloid cell differentiation.

## REFERENCES

1. Kerppola, T.K., et al. 1994. A conserved region adjacent to the basic domain is required for recognition of an extended DNA binding site by Maf/Nrl family proteins. *Oncogene* 9: 3149-3158.
2. Igarashi, K., et al. 1995. Conditional expression of the ubiquitous transcription factor MafK induces erythroleukemia cell differentiation. *Proc. Natl. Acad. Sci. USA* 92: 7445-7449.

## CHROMOSOMAL LOCATION

Genetic locus: MAF (human) mapping to 16q23.2; Maf (mouse) mapping to 8 E1.

## SOURCE

c-Maf (E-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1-21 at the N-terminus of c-Maf of human origin.

## PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-518062 X, 200 µg/0.1 ml.

c-Maf (E-7) is available conjugated to agarose (sc-518062 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518062 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518062 PE), fluorescein (sc-518062 FITC), Alexa Fluor<sup>®</sup> 488 (sc-518062 AF488), Alexa Fluor<sup>®</sup> 546 (sc-518062 AF546), Alexa Fluor<sup>®</sup> 594 (sc-518062 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-518062 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-518062 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-518062 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

c-Maf (E-7) is recommended for detection of c-Maf of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

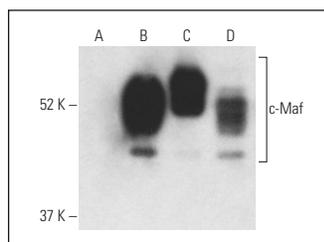
Suitable for use as control antibody for c-Maf siRNA (h): sc-38111, c-Maf siRNA (m): sc-38112, c-Maf shRNA Plasmid (h): sc-38111-SH, c-Maf shRNA Plasmid (m): sc-38112-SH, c-Maf shRNA (h) Lentiviral Particles: sc-38111-V and c-Maf shRNA (m) Lentiviral Particles: sc-38112-V.

c-Maf (E-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

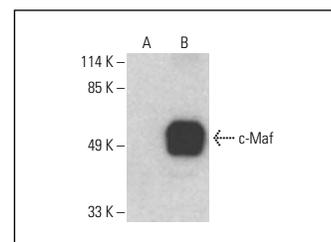
Molecular Weight of c-Maf: 50 kDa.

Positive Controls: MafB (h2): 293T Lysate: sc-114754 or mouse c-Maf transfected 293T whole cell lysate.

## DATA



c-Maf (E-7): sc-518062. Western blot analysis of c-Maf expression in non-transfected 293T: sc-117752 (A), human MafB transfected 293T: sc-114754 (B), mouse c-Maf transfected 293T (C) and RPMI-8226 (D) whole cell lysates. Detection reagent used: m-IgGκ BP-HRP: sc-516102.



c-Maf (E-7): sc-518062. Western blot analysis of c-Maf expression in non-transfected (A) and mouse c-Maf transfected (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Liu, L., et al. 2021. Berbamine inhibits cell proliferation and migration and induces cell death of lung cancer cells via regulating c-Maf, PI3K/Akt, and MDM2-P53 pathways. *Evid. Based Complement. Alternat. Med.* 2021: 5517143.
2. Zhang, B., et al. 2022. CD127 imprints functional heterogeneity to diversify monocyte responses in inflammatory diseases. *J. Exp. Med.* 219: e20211191.
3. Pierrevelin, M., et al. 2022. Engineering novel 3D models to recreate high-grade osteosarcoma and its immune and extracellular matrix microenvironment. *Adv. Healthc. Mater.* 11: e2200195.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

Alexa Fluor<sup>®</sup> is a trademark of Molecular Probes, Inc., Oregon, USA