

Rabbit Maf Polyclonal Antibody | anti-Maf antibody

Maf Antibody

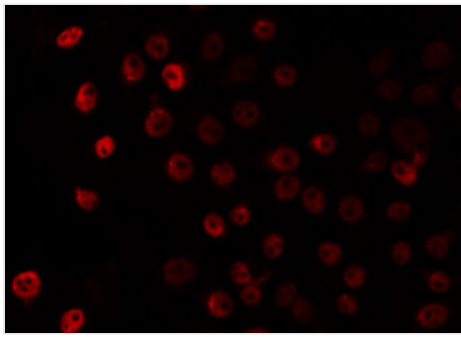
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321066	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

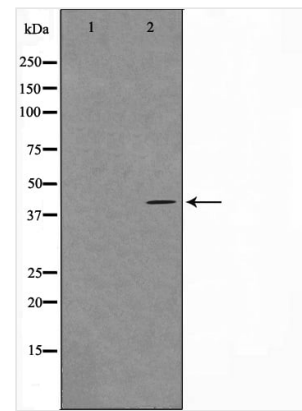
Maf; Polyclonal Antibody; Maf Antibody; AS42 oncogene homolog; Avian musculoaponeurotic fibrosarcoma (MAF) protooncogene; Avian musculoaponeurotic fibrosarcoma (v maf); c maf proto oncogene; cMaf; maf; MAF_HUMAN; MAF2; MGC71685; Proto oncogene c Maf; Proto-oncogene c-maf; Transcription factor Maf; v maf musculoaponeurotic fibrosarcoma oncogene homolog (avian); v maf musculoaponeurotic fibrosarcoma oncogene homolog; V-maf musculoaponeurotic fibrosarcoma oncogene homolog; anti-Maf antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Maf antibody detects endogenous levels of Maf
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	373
Applicable Applications for anti-Maf antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Maf
Subcellular Location	Nucleus.
Tissue Specificity	Expressed in endothelial cells.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

**IF (Immunofluorescence)**

AAA321066 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

**WB (Western Blot)**

Western blot analysis on HuvEc cell lysate using Maf Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Maf antibody

Description: Maf Acts as a transcriptional activator or repressor. Involved in embryonic lens fiber cell development. Recruits the transcriptional coactivators CREBBP and/or EP300 to crystallin promoters leading to up-regulation of crystallin gene during lens fiber cell differentiation. Activates the expression of IL4 in T helper 2 (Th2) cells. Increases T-cell susceptibility to apoptosis by interacting with MYB and decreasing BCL2 expression. Together with PAX6, transactivates strongly the glucagon gene promoter through the G1 element. Activates transcription of the CD13 proximal promoter in endothelial cells. Represses transcription of the CD13 promoter in early stages of myelopoiesis by affecting the ETS1 and MYB cooperative interaction. Involved in the initial chondrocyte terminal differentiation and the disappearance of hypertrophic chondrocytes during endochondral bone development. Binds to the sequence 5'-[GT]G[GC]N[GT]AGNN-3' in the L7 promoter. Binds to the T-MARE (Maf response element) sites of lens-specific alpha-and beta-crystallin gene promoters. Binds element G1 on the glucagon promoter. Binds an AT-rich region adjacent to the TGC motif (atypical Maf response element) in the CD13 proximal promoter in endothelial cells. When overexpressed, represses anti-oxidant response element (ARE)-mediated transcription. Involved either as an oncogene or as a tumor suppressor, depending on the cell context. Binds to the ARE sites of detoxifying enzyme gene promoters.

Function: Acts as a transcriptional activator or repressor. Involved in embryonic lens fiber cell development. Recruits the transcriptional coactivators CREBBP and/or EP300 to crystallin promoters leading to up-regulation of crystallin gene during lens fiber cell differentiation. Activates the expression of IL4 in T helper 2 (Th2) cells. Increases T-cell susceptibility to apoptosis by interacting with MYB and decreasing BCL2 expression. Together with PAX6, transactivates strongly the glucagon gene promoter through the G1 element. Activates transcription of the CD13 proximal promoter in endothelial cells. Represses transcription of the CD13 promoter in early stages of myelopoiesis by affecting the ETS1 and MYB cooperative interaction. Involved in the initial chondrocyte terminal differentiation and the disappearance of hypertrophic chondrocytes during endochondral bone development. Binds to the sequence 5'-[GT]G[GC]N[GT]AGNN-3' in the L7 promoter. Binds to the T-MARE (Maf response element) sites of lens-specific alpha-and beta-crystallin gene promoters. Binds element G1 on the glucagon promoter. Binds an AT-rich region adjacent to the TGC motif (atypical Maf response element) in the CD13 proximal promoter in endothelial cells (By similarity). When overexpressed, represses anti-oxidant response element (ARE)-mediated transcription. Involved either as an oncogene or as a tumor suppressor, depending on the cell context. Binds to the ARE sites of detoxifying enzyme gene promoters.

Subunit Structure: Homodimer or heterodimer with other bHLH-Zip transcription factors. Binds DNA as a homodimer or as a heterodimer. Heterotetramer of two MAF and two USF2. Interacts with PAX6; the interaction is direct. Interacts with MYB; interaction takes place weakly in normal T-cells and increases in T-cells following stimulation through the TCR engagement. Interacts with MYB; the ternary complex formed with MYB and the CD13 promoter is regulated in response to differentiating signals. Interacts with USF2; the interaction inhibits its DNA-binding activity on the L7 promoter. Interacts with CREBBP, EP300 and ETS1 (By similarity).

Post-translational Modifications: Ubiquitinated, leading to its degradation by the proteasome. Ubiquitination is triggered by glucocorticoids. Phosphorylated by GSK3 and MAPK13 on serine and threonine residues (Probable). The phosphorylation status can serve to either stimulate or inhibit transcription.

Similarity: Belongs to the bZIP family. Maf subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73427806
NCBI GeneID	4094
NCBI Accession #	NP_001026974.1
NCBI GenBank Nucleotide #	NM_001031804.2
UniProt Accession #	O75444; Q66I47; Q9UP93
Molecular Weight	Observed: 41 kDa Predicted: 39 kDa
NCBI Official Full Name	transcription factor Maf isoform b
NCBI Official Synonym Full Names	MAF bZIP transcription factor
NCBI Official Symbol	MAF
NCBI Official Synonym Symbols	CCA4; AYGRP; c-MAF; CTRCT21
NCBI Protein Information	transcription factor Maf
UniProt Protein Name	Transcription factor Maf
UniProt Gene Name	MAF

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