

MXI1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14974c

Specification

MXI1 Antibody (Center) - Product Information

Application WB,E
Primary Accession P50539

Other Accession 009015, P50540, NP 005953.4, NP 569157.2,

NP_001008541.1

Reactivity Human, Mouse

Predicted Rat
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 26062
Antigen Region 53-82

MXI1 Antibody (Center) - Additional Information

Gene ID 4601

Other Names

Max-interacting protein 1, Max interactor 1, Class C basic helix-loop-helix protein 11, bHLHc11, MXI1, BHLHC11

Target/Specificity

This MXI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 53-82 amino acids from the Central region of human MXI1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at $2-8^{\circ}$ C for up to 2 weeks. For long term storage store at -20° C in small aliquots to prevent freeze-thaw cycles.

Precautions

MXI1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MXI1 Antibody (Center) - Protein Information



Name MXI1

Synonyms BHLHC11

Function Transcriptional repressor. MXI1 binds with MAX to form a sequence-specific DNA-binding protein complex which recognizes the core sequence 5'-CAC[GA]TG-3'. MXI1 thus antagonizes MYC transcriptional activity by competing for MAX.

Cellular Location

Nucleus.

Tissue Location

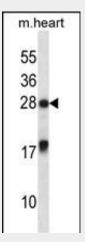
High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle

MXI1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

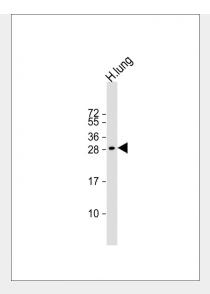
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

MXI1 Antibody (Center) - Images



MXI1 Antibody (Center) (Cat. #AP14974c) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the MXI1 antibody detected the MXI1 protein (arrow).





Anti-MXI1 Antibody (Center) at 1:2000 dilution + human lung lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MXI1 Antibody (Center) - Background

Expression of the c-myc gene, which produces an oncogenic transcription factor, is tightly regulated in normal cells but is frequently deregulated in human cancers. The protein encoded by this gene is a transcriptional repressor thought to negatively regulate MYC function, and is therefore a potential tumor suppressor. This protein inhibits the transcriptional activity of MYC by competing for MAX, another basic helix-loop-helix protein that binds to MYC and is required for its function. Defects in this gene are frequently found in patients with prostate tumors. Three alternatively spliced transcripts encoding different isoforms have been described. Additional alternatively spliced transcripts may exist but the products of these transcripts have not been verified experimentally.

MXI1 Antibody (Center) - References

Lofstedt, T., et al. Exp. Cell Res. 315(11):1924-1936(2009) Baranzini, S.E., et al. Hum. Mol. Genet. 18(4):767-778(2009) Tsao, C.C., et al. Cancer Biol. Ther. 7(10):1619-1627(2008) Suo, X.H., et al. Zhonghua Xue Ye Xue Za Zhi 28(11):745-749(2007) Dugast-Darzacq, C., et al. FEBS J. 274(17):4643-4653(2007)