



MXI1 Polyclonal Antibody

Catalog No	YP-Ab-06932
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	MXI1 BHLHC11
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	MXI1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Max-interacting protein 1;MAX interactor 1;Max interacting protein 1;MAD2; Class C basic helix-loop-helix protein 11;MXI1;MXI1 BHLHC11;Max-interacting protein 1 (Max interactor 1) (Class C basic helix-loop-helix protein 11) (bHLHc11)
Observed Band	25kD
Calculated Molecular Weight	25kD
Cell Pathway	Nucleus.
Tissue Specificity	High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle.
Function	disease:Defects in MXI1 are found in some patients with prostate cancer (CaP) [MIM:176807].,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.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit:Interacts with SMC3 (By similarity). Efficient DNA binding requires dimerization with another bHLH protein. Binds DNA as a heterodimer with MAX. Interacts with RNF17.,tissue specificity:High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle.,



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. [provided by RefSeq, Jul 2008],

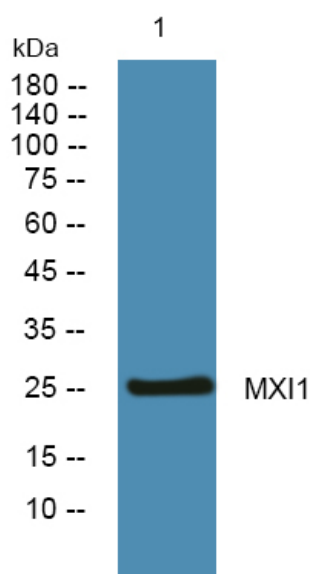
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4° over night