

Anti-MGA Picoband Antibody

Catalog # ABO12559

Product Information

Application	WB
Primary Accession	Q8IWI9
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for MAX gene-associated protein(MGA) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	23269
Other Names	MAX gene-associated protein, MAX dimerization protein 5, MGA, KIAA0518, MAD5
Calculated MW	336159
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Nucleus .
Source	Eukaryota
Protein Name	MAX gene-associated protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MGA (2376-2415aa QKEAEAFAYYRRTHANERRRRGEMRDLFEKLKITLGLLH), different from the related mouse sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

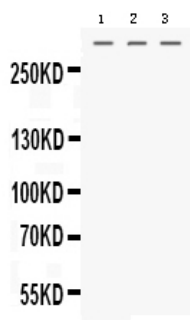
Protein Information

Name	MGA {ECO:0000303 PubMed:39545409}
Function	Functions as a dual-specificity transcription factor, regulating the expression of both MAX-network and T-box family target genes. Functions as a repressor or an activator. Binds to 5'- AATTCACACCTAGGTGTGAAATT-3' core sequence and seems to regulate MYC-MAX target genes. Suppresses transcriptional activation by MYC and inhibits MYC-dependent cell transformation. Function activated by heterodimerization with MAX. This heterodimerization serves the dual function of both generating an E-box-binding heterodimer and simultaneously blocking interaction of a corepressor (By similarity).
Cellular Location	Nucleus.
Tissue Location	Highly expressed in germ cells and granulosa cells.

Background

Mga is a DNA-binding protein that activates the expression of several important virulence genes in *Streptococcus pyogenes* (group A *Streptococcus*, GAS) in response to changing environmental conditions. It had been found that the mouse transcription factor Max interacted with Mga. Coimmunoprecipitation analysis confirmed that Max and Mga interacted in transfected HEK293 cells. EMSA revealed that Mga required Max for binding to the E-box sequence CACGTG. The isolated T-box of Mga bound the brachyury T-box-binding site in the absence of Max. Mga repressed transcription of a reporter driven from a T-box-binding site, but coexpression of Mga with Max caused transcriptional activation from the T-box-binding site. Expression of Mga with Max, but not Mga alone, activated transcription from a reporter containing the E-box site.

Images



Western blot analysis of MGA expression in HELA whole cell lysates (lane 1), MCF-7 whole cell lysates (lane 2) and SW620 whole cell lysates (lane 3). MGA at 334KD was detected using rabbit anti- MGA Antigen Affinity purified polyclonal antibody (Catalog # ABO12559) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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