

GATA4 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2110
Host	Mouse
Isotype	Mouse IgG2b
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human GATA4 expressed in E. Coli.
Mol wt	46kDa
Species reactivity	Human,Rat
Clonality	Monoclonal
Recommended application	WB
Concentration	N/A
Full name	N/A
Synonyms	MGC126629

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

GATA binding protein 4, also known as GATA4, it is a 46 kDa member of the GATA family of zinc-finger transcription factors. Members of this family is involved in the development of cardiac hypertrophy and remodeling, and plays a critical role in regulating basal and agonist or stress induced gene expression in cardiac and smooth muscle cell types. These factors recognize the GATA motif which is present in the promoters of many genes. GATA4 contains a conserved MAPK phosphorylation site at serine 105 within the transcriptional activation domain. Serine 105 of GATA4 is phosphorylated in response to agonist stimulation through MEK 1 ERK1 / 2, and weakly through JNK or p38 MAPKs. GATA4 is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function. Mutations in this gene have been associated with cardiac septal defects.

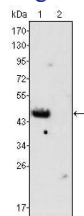
Recommended Dilution

WB: 1:500 - 1:2000

ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using GATA4 mouse mAb against rat fetal heart (1) and adult heart (2) tissues lysate.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.