

Product datasheet for **TA396820**

GATA4 Mouse Monoclonal Antibody [Clone ID: 10D8.B10.D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10D8.B10.D4
Applications:	ELISA, WB
Recommended Dilution:	WB: 1:500-1:1000 ELISA: 1:2000 - 1:10,000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	GATA4 protein A purified antibody was prepared in mice by repeated immunizations with a recombinant protein corresponding to the first 100 amino acids of human GATA4 protein.
Specificity:	Anti-GATA4 was purified from concentrated tissue culture supernatant Protein A chromatography. A BLAST analysis was used to suggest reactivity with mouse and rat GATA4 based on a 93% homology. Cross-reactivity with GATA4 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	GATA binding protein 4
Database Link:	Entrez Gene 2626 Human P43694



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Background:

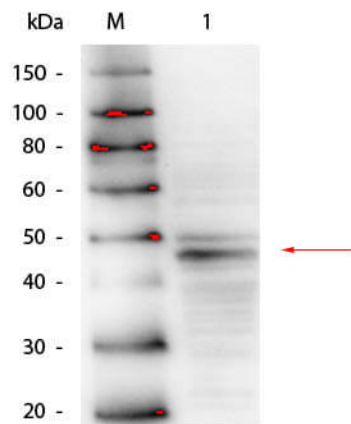
GATA4, also known as GATA-binding factor 4, acts in cooperation with NKX2-5 as a transcriptional activator of ANF. It binds to the consensus sequence 5'-AGATAG-3' on DNA. GATA4 is critical for the enlargement of cardiac myocytes. Mutations in GATA4 have been linked with congenital heart malfunctions and malformations. Anti-GATA4 antibody is ideal for researchers interested in developmental biology, stem cell research, cell growth and cancer research.

Synonyms:

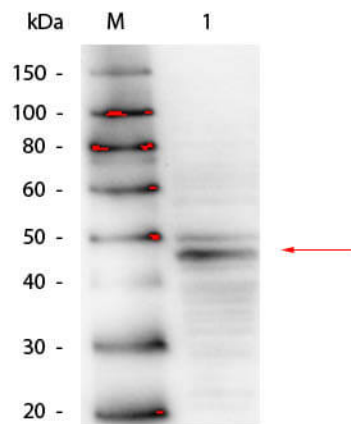
mouse anti-GATA4 Antibody, Transcription factor GATA-4, GATA-binding factor 4, GATA-4 Antibody

Note:

Anti-GATA4 antibody has been tested by ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 44 kDa in size corresponding to GATA4 by western blotting in the appropriate cell lysate or extract.

Product images:


Western Blot of Mouse anti-GATA4 Antibody. Lane 1: CCRF-CEM Lysate. Load: 25 µg per lane. Primary antibody: GATA-4 antibody at 1:500 overnight at 4°C. Secondary antibody: anti-mouse IgG HRP antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 44.5 kDa, 44.5 kDa for GATA4.



Western Blot of Mouse anti-GATA4 Antibody. Lane 1: CCRF-CEM Lysate. Load: 25 µg per lane. Primary antibody: GATA-4 antibody at 1:500 overnight at 4°C. Secondary antibody: Anti-mouse IgG HRP antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 44.5 kDa, 44.5 kDa for GATA4.