

Datasheet for 200-301-P15S**GATA4 Antibody****Overview**

Description:	Anti-GATA4 (MOUSE) Monoclonal Antibody - 200-301-P15S
Item No.:	200-301-P15S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

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
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	10D8.B10.D4
Format:	IgG1

Target Details

Gene Name:	GATA4
Reactivity:	Human
Immunogen Type:	Recombinant Protein
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.

Purity/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.
Relevant Links:	• UniProtKB - P43694 • NCBI - NP_002043.2 • GeneID - 2626

Application Details

Tested Applications:	ELISA, WB
Application 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2000-1:10,000
WB:	1:500-1:1000

Formulation

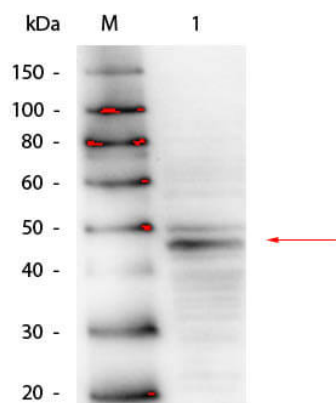
Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.