

Product datasheet for **CF500091**

GATA4 Mouse Monoclonal Antibody [Clone ID: OTI9F9]

Product data:

| | |
|--------------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI9F9 |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | WB 1:200~500, IHC 1:50, IF 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG3 |
| Clonality: | Monoclonal |
| Immunogen: | Human recombinant protein fragment corresponding to amino acids 296-442 of human GATA4 (NP_002043) produced in E.coli. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 44.4 kDa |
| Gene Name: | GATA binding protein 4 |
| Database Link: | NP_002043 Entrez Gene 14463 Mouse Entrez Gene 54254 Rat Entrez Gene 2626 Human P43694 |



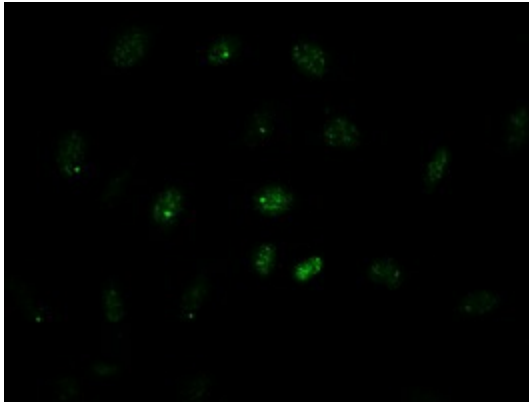
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Background: GATA4 encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function. Mutations in this gene have been associated with cardiac septal defects.

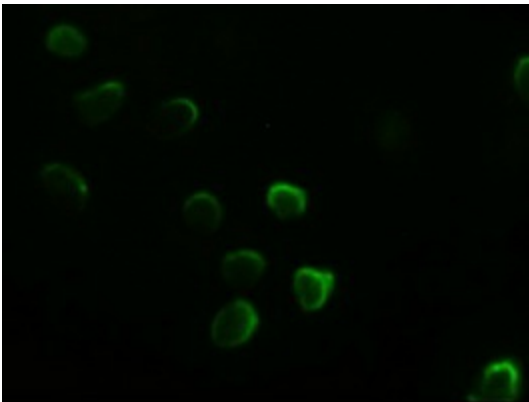
Synonyms: ASD2; TACHD; TOF; VSD1

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

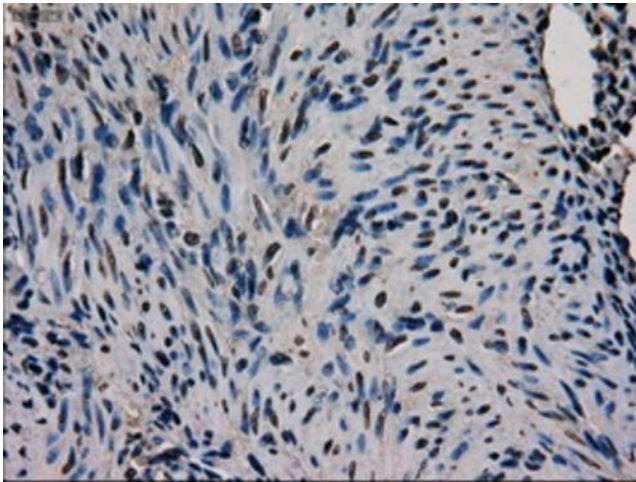
Product images:



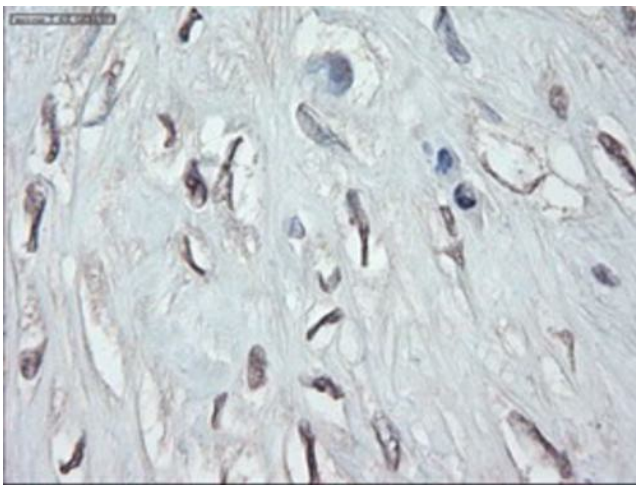
Immunofluorescent staining of HeLa cells using anti-GATA4 mouse monoclonal antibody ([TA500091]).



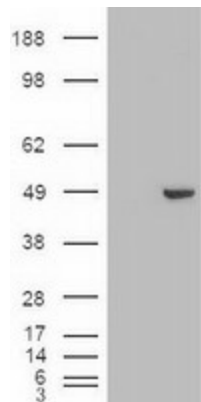
Anti-GATA4 mouse monoclonal antibody ([TA500091]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GATA4 ([RC210945]).



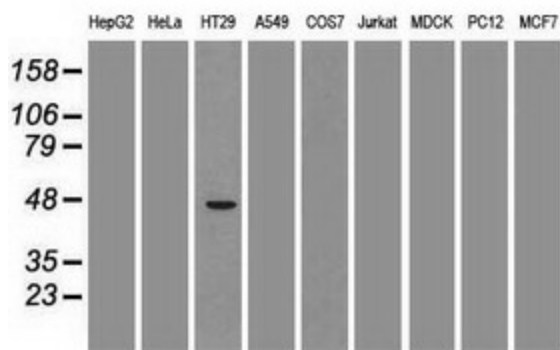
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-GATA4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-GATA4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GATA4 (Cat# [RC210945], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GATA4(Cat# [TA500091]). Positive lysates [LY419558] (100ug) and [LC419558] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GATA4 monoclonal antibody.