

**Mouse Anti-GATA4 [G4]: MC0169, MC0169RTU7**

**Intended Use:** For Research Use Only

**Description:** Members of the GATA family share a conserved zinc finger DNA-binding domain and are capable of binding the WGATAR consensus sequence. GATA1 is erythroid-specific and is responsible for the regulated transcription of erythroid genes. It is an essential component in the generation of the erythroid lineage. GATA2 is expressed in embryonic brain and liver, HeLa and endothelial cells, as well as in erythroid cells. Studies with a modified GATA consensus sequence, AGATCTTA, have shown that GATA2 and GATA3 recognize this mutated consensus while GATA1 has poor recognition of this sequence. This indicates broader regulatory capabilities of GATA2 and GATA3 than GATA1. GATA3 is highly expressed in T lymphocytes. GATA4, GATA5 and GATA6 comprise a subfamily of transcription factors. Both GATA4 and GATA6 are found in heart, pancreas and ovary; lung and liver tissues exhibit GATA6, but not GATA4 expression. GATA5 expression has been observed in differentiated heart and gut tissues and is present throughout the course of development in the heart. Although expression patterns of the various GATA transcription factors may overlap, it is not yet apparent how the GATA factors are able to discriminate in binding their appropriate target sites.

**Specifications**

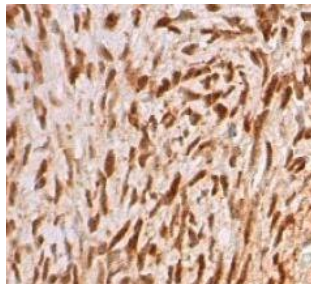
Clone: G4  
 Source: Mouse  
 Reactivity: Human, mouse, rat  
 Isotype: IgG2a/k  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, IF, IP, WB  
 Package:

Description	Catalog No.	Size
GATA4 Concentrated	MC0169	1 ml
GATA4 Prediluted	MC0169RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Ovary tissue  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human ovary tissue stained with anti-GATA4 using DAB

**References:**

1. Scalable Differentiation of Human iPSCs in a Multicellular Spheroid-based 3D Culture into Hepatocyte-like Cells through Direct Wnt/β-catenin Pathway Inhibition. Pettinato, G. et al. Sci Rep. 6: 32888, 2016.
2. Direct reprogramming of mouse fibroblasts into cardiomyocytes with chemical cocktails. Fu, Y. et al. Cell research. 25: 1013-24, 2015.
3. MEF2 Cooperates With Forskolin/cAMP and GATA4 to Regulate Star Gene Expression in Mouse MA-10 Leydig. Daems, C. et al. Cells Endocrinology. 2693-2703, 2015.