

**Mouse Anti-GATA3 [C11]: MC0125, MC0125RTU7**

**Intended Use:** For Research Use Only

**Description:** GATA-3 (GATA binding protein 3) is a member of the GATA family of transcription factors. This 50kD a nuclear protein regulates the development and subsequent maintenance of a variety of human tissues, including hematopoietic cells, skin, kidney, mammary gland, and the central nervous system. Among several other roles, GATA-3 involved in luminal cell differentiation in the mammary gland and appears to control a set of genes involved in the differentiation and proliferation of breast cancer. The expression of GATA-3 is associated with the expression of estrogen receptor-alpha (ER) in breast cancer. GATA-3 has been shown to be a novel marker for bladder cancer. The study demonstrated that GATA-3 stained 67% of urothelial Carcinomas, but none of prostate or renal carcinomas.

**Specifications**

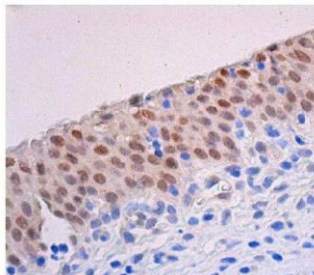
Clone: C11  
 Source: Mouse  
 Reactivity: Human, mouse, rat  
 Isotype: IgG1k  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, IF, IP, WB  
 Package:

Description	Catalog No.	Size
GATA3 Concentrated	MC0125	1 ml
GATA3 Prediluted	MC0125RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Breast, urinary bladder  
 Concentrated Dilution: 50-250  
 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 urinary bladder tissue stained with anti-GATA3 using DAB

**References:**

1. Utility of GATA3 immunohistochemistry for diagnosis of metastatic breast carcinoma in cytology specimens. Braxton DR, et al. Diagn Cytopathol. 2014 Aug 4.
2. The utility of p63, p40, and GATA-binding protein 3 immunohistochemistry in diagnosing micropapillary urothelial carcinoma. Lin X, et al. Hum Pathol. 2014 Sep;45(9):1824-9.
3. Direct protein interactions are responsible for Ikaros-GATA and Ikaros-Cdk9 cooperativeness in hematopoietic cells. Bottardi, S. et al. Molecular and cellular biology. 2013. 33: 3064-76.
4. Tcr enhancer activation by inducible transcription factors downstream of pre-TCR signaling. del Blanco, B. et al. J. Immunol. 2012. 188: 3278-3293.

Doc. 100-MC0125  
Rev. A