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DATA SHEET

Mouse Anti-GATA3 [HG3-31]: MC0589, MC0589RTU7

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:	HG3-31
Source:	Mouse
Reactivity:	Human, mouse, rat
Isotype:	IgG1
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C.
Applications:	IHC, ICC/IF, IP, WB

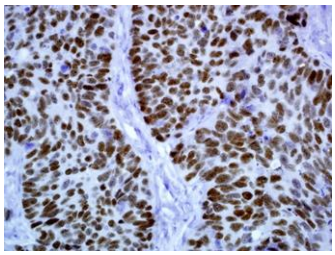
Package:

Description	Catalog No.	Size
GATA3 Concentrated	MC0589	1 ml
GATA3 Prediluted	MC0589RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Transitional cell carcinoma, or lung carcinoma
Concentrated Dilution:	50-250
Pretreatment:	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 urothelial carcinoma 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. Tcra enhancer activation by inducible transcription factors downstream of pre-TCR signaling. del Blanco, B. et al. J. Immunol. 2012. 188: 3278-3293.
5. GATA3 protein as a MUC1 transcriptional regulator in breast cancer cells. Abba MC, et al. Breast Cancer Res. 2006;8(6):R64.

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