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DATA SHEET

Mouse Anti-GATA3 [L50-823]: MC0538, MC0538RTU7

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:	L50-823
Source:	Mouse
Reactivity:	Human, rat
Immunogen:	Conserved peptide between the GATA trans-activation and DNA-binding domain
Isotype:	IgG1k
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

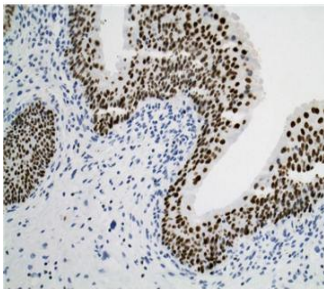
Package:

Description	Catalog No.	Size
GATA3 Concentrated	MC0538	1 ml
GATA3 Prediluted	MC0538RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Transitional cell carcinoma, or lung carcinoma
Concentrated Dilution:	50-100
Pretreatment:	EDTA pH 8.0, 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 bladder transitional cell 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. Aug 4, 2014.
2. The utility of p63, p40, and GATA-binding protein 3 immunohistochemistry in diagnosing micropapillary urothelial carcinoma. Lin X, et al. Hum Pathol. Sep;45(9):1824-9, 2014.
3. GATA-3 immunohistochemistry in the differential diagnosis of adenocarcinoma of the urinary bladder. Ellis CL, et al. Am J Surg Pathol. Nov;37(11):1756-60, 2013.
4. Higher levels of GATA3 predict better survival in women with breast cancer. Yoon NK, et al. Hum Pathol. 2010 Dec;41(12):1794-801, 2010.

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Orders: customercare@medaysis.com Support: techsupport@medaysis.com Tel: 510-509-3153 www.medaysis.com