GATA3 Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
GATA3 Concentrate	FP-A019-01	0.1 ml
GATA3 Concentrate	FP-A019-10	1 ml
GATA3 Predilute	FP-A019-70	7 ml
GATA3 Predilute	FP-A019-250	25 ml

Description

GATA3 is a transcription factor important in cell proliferation, development, and differentiation. GATA3 is mostly observed in breast and urothelial carcinomas, and rarely present in other cancers such as endometrial endometrioid adenocarcinoma. Among the breast carcinomas, GATA3 has a lower expression in luminal B subtype breast carcinoma. Studies have found GATA3 expression to be associated with ER (estrogen receptor), PR (progesterone receptor), and Her2 in breast cancer cases. Urothelial carcinomas stain positively for GATA3 in invasive or high grade tumors, therefore Anti-GATA3 is useful for carcinoma diagnosis when breast and bladder are plausible.

Specifications

Clone	IHC583
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Breast Carcinoma,Urothelial Carcinoma
Dilution Range	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the corresponding user manual for detection system

Result

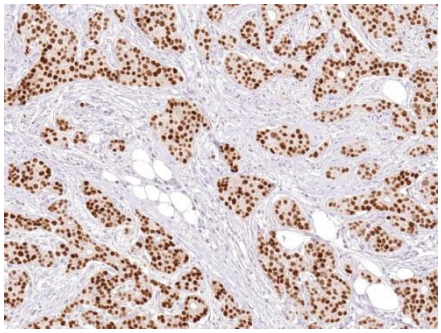

Figure. GATA3 on Breast Cancer

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Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Higgins JP**, et al. "Placental S100 (S100P) and GATA3: markers for transitional epithelium and urothelial carcinoma discovered by complementary DNA microarray." Am J Surg Pathol. 2007; 31:673-80.

2. **Liu H**, et al. "Immunohistochemical evaluation of GATA3 expression in tumors and normal tissues: a useful immunomarker for breast and urothelial carcinomas." Am J Clin Pathol. 2012; 138:57-64.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for assistance with more questions regarding this product.