

GATA3 [EPR16651] - 145Nd

Catalog: 714501

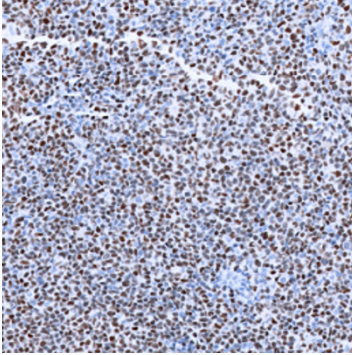
Clone: EPR16651

Isotype: Rabbit IgG

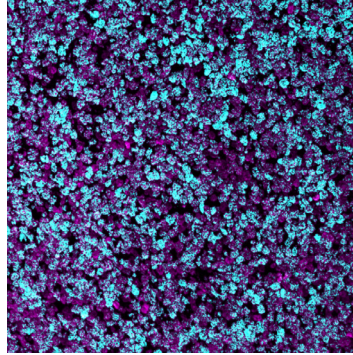
Reactivity: Human*, mouse

Application: MIBI-FFPE

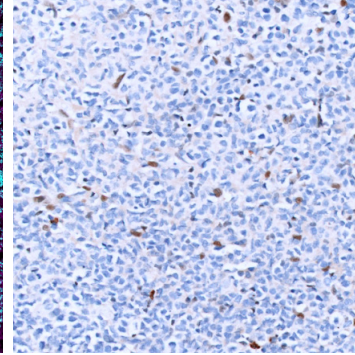
Storage: Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C



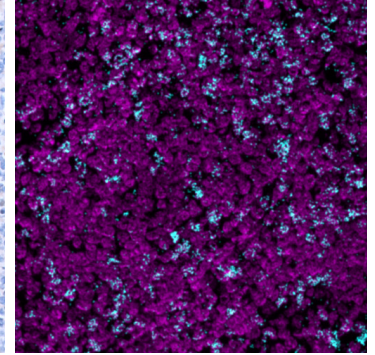
IHC: GATA3 staining of FFPE human T-cell lymphoma



MIBI: GATA3 staining (cyan) of FFPE human T-cell lymphoma, costained with dsDNA (magenta)



IHC: GATA3 staining of FFPE human tonsil



MIBI: GATA3 staining (cyan) of FFPE human tonsil, costained with dsDNA (magenta)

Background

GATA-3 is a critical regulator of development of various systems in both mouse and human. The function of GATA-3 has been extensively studied in T cell development and has recently been shown to be a downstream target of Notch in Notch-mediated differentiation of TH2 cells. It is expressed in both hematopoietic and non-hematopoietic tissues, including the kidney, skin, mammary gland, and central nervous system. Decreased expression of GATA-3 in luminal breast cancer is associated with poor clinical outcome.

Validation

Each lot of conjugated antibody is quality control tested by staining tissue following the MIBI Staining Protocol optimized for the applicable tissue format with subsequent MIBIScope analysis of stained tissue microarray using the appropriate positive and negative tissue field of views. These results are pathologist verified.

Recommended Usage

Human FFPE: 1:100 dilution. For optimal results, the antibody should be titrated for each desired application.

References

I-Cheng Ho et al. GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. *Nat Rev Immunol.* 2009 Feb;9(2):125-35.

Jonathan Chou et al. GATA3 in development and cancer differentiation: cells GATA have it! *J Cell Physiol.* 2010 Jan;222(1):42-9.

* Conjugate tested on human tissue.