GATA – 3 (L50-823)

Format	Catalog No.	Pack size	Dilution
Concentrated	G01696 A, B, C	0.1, 0.5, 1.0 mL	1:100-200
Prediluted	G01696 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Mouse

IMMUNOGEN: Conserved peptide between the GATA trans-activation and DNA-binding domain

CLONE: L50-823

ISOTYPE: IgG1 /κ

FORMAT: Antibody as Purified antibody diluted in Tris-HCl buffer containing stabilizing protein and <0.1% ProClin

SUPPLIED AS - Buffer with protein carrier and preservative

SPECIES REACTIVITY : Humans; others not tested.

POSITIVE CONTROL : Urothelial carcinoma

CELLULAR LOCALIZATION : Nuclear

INTENDED USE: For Research Use Only (RUO).

BACKGROUND –

GATA-3, also known as GATA binding protein 3, belongs to the GATA transcription factor family. The formation and subsequent maintenance of several human tissues, such as haematopoietic cells, skin, kidney, mammary gland, and central nervous system, are regulated by this 50 kDa nuclear protein. Among its many other functions, GATA-3 is involved in the differentiation of luminal cells in the mammary gland and seems to regulate a group of genes related to the development and spread of breast cancer. In breast cancer, GATA-3 expression is linked to oestrogen receptor-alpha (ER) expression. It has been demonstrated that GATA-3 is a new marker for bladder cancer. GATA-3 stained 67% of urothelial carcinomas, but not any prostate or kidney cancers, according to the study.

TITER/WORKING DILUTION : Immunohistochemistry (Frozen and Formalin-fixed): 1-2ug/ml
Flow Cytometry: 1-2ug/million cells
Immunofluorescence: 1-3ug/ml
Western Blotting: 2-4ug/ml

MICROBIOLOGICAL STATE : This product is not sterile.

LIMITATIONS AND USES:

1. Not to be consumed internally.
2. For diagnostic purposes in vitro.
3. This product is designed for qualitative immunohistochemistry using formalin-fixed, paraffin-embedded

4. tissue sections from both normal and malignant tissues, which will be examined under a light microscope.
5. If the reagent gets hazy, don't use it.
6. Never use after the expiration date.
7. When working with reagents, exercise caution.
8. Not sterile.

Materials Required but not Provided

1. Positive Tissue Control: Routinely processed, neutral buffered formalin-fixed, paraffin-embedded Bladder or urothelial carcinoma
2. Negative tissue control (internal or external)
3. Microscope slides and coverslips
4. Staining jars or baths
5. Timer Instructions for Use (IFU)
6. Xylene or xylene substitute
7. Ethanol or reagent alcohol
8. Deionized or distilled water
9. Heating equipment or enzyme for tissue pretreatment step
10. Detection system
11. Chromogen
12. Wash Buffer
13. Hematoxylin
14. Antibody diluents
15. Peroxide Block
16. Light Microscope
17. Mounting medium
18. Avidin-Biotin Blocking Reagents for use with streptavidin biotin detection

PROCEDURE –

1. **Tissue Section Pretreatment (Necessary):** Citrate Plus pretreatment greatly improves the staining of tissue slices that have been paraffin embedded and fixed with formalin.
2. **Incubation Time for Primary Antibody:** We recommend 30 minutes at room temperature for incubation.
   However, the user should choose the best incubation time based on the staining system used and the fixing circumstances.
3. **Visualisation:** To get the highest staining intensity, we advise combining the "DAB Chromogen/Substrate Bulk Pack (High Contrast)"] with the HRP Lab Pack".

PRECAUTIONS –

1. Contains 0.09% w/v sodium azide as a preservative.
2. Avoid pipetting by mouth.
3. Reagents and specimens should not come into touch with skin or mucous membranes.

4. Prevent reagent contamination by microorganisms, as this could lead to an increase in nonspecific staining.
5. There are no dangerous materials in this product.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com