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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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GATA3 (L50-823)

nordicmubio.com/product/gata3-l50-823

Catalogue number: **GAT001-0.5**

Clone	L50-823
Isotype	IgG1/k
Product Type	Primary Antibodies
Units	0.5 ml
Host	Mouse
Application	Immunohistochemistry (paraffin)

Background

GATA3 (GATA binding protein 3 to DNA sequence [A/T]GATA[A/G]) is a zinc finger transcription factor and plays an important role in cell proliferation, development and differentiation in many tissues and cell types. Among other roles, GATA3 is involved in luminal cell differentiation in the mammary gland and appears to control a set of genes involved in the proliferation of breast cancer. GATA3 is primarily over-expressed in breast and urothelial carcinomas and only rarely found in tumors of other organs. Therefore anti-GATA3 has been used for diagnosis of unknown primary carcinoma, when carcinomas of the breast or bladder are a possibility. In a clinical study it was demonstrated that GATA-3 stained 84% of urothelial carcinoma and 94% Mammacarcinoma (2). However, another study demonstrates positivity for GATA3 in a number of other tumours (3), so that it is indicated to use more specific markers for differential diagnosis. For mamma carcinoma Mammaglobin and GCDFP should be used in addition to GATA3. GATA3; Trans-acting T-cell-specific transcription factor GATA-3; GATA-binding factor 3.

Source

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

Product

Purified antibody in PBS with 0.2% BSA and 15 mM sodium azide

Purification Method: Purified antibody in PBS with 0.2% BSA and 15 mM sodium azide

Secondary Reagents: We recommend the use of our Universal Staining Systems AEC or DAB (Art. No. AE005 and DA005) as well as ABC- or Polymer Systems containing anti-mouse IgG conjugates.

Specificity

Species Reactivity: Human, rat, others not tested

Applications

IHC (P)

Incubation Time: 60 min at RT

Working Concentration: (conc.)1:50-1:500

Pre-Treatment: HIER (heat induced epitope retrieval) using BioLogo's Unmasking Fluid T (TEC-Buffer, pH 8, Art. No. DE005).

Positive Control: Breast carcinoma, Urothelial carcinoma (nuclear staining)

Storage

2-8°C

Caution

*These antibodies are intended for in vitro research use only. They must not be used for clinical diagnostics and not for in vivo experiments in humans or animals. ** The preservative sodium azide is known to be poisonous and potentially hazardous to health. It should be handled only by trained staff. Despite of the product's low azide concentration it must be handled with care. Dispose according to regional rules!

References

1. Higgins JP et al. Placental S100 (S100P) and GATA3: markers for transitional epithelium and urothelial carcinoma discovered by complementary DNA mircoarray. Am J Surg Pathol. 2007; 31:673-680. 2. Liu H et al. Immunohistochemical evaluation of GATA3 expression in tumors and normal tissues. Am J Clin Pathol. 2012; 138:57-64. 3. Miettinen M et al. GATA 3 – A multispecific but potentially useful marker in surgical pathology – a systematic analysis of 2500 epithelial and non-epithelial tumors. Am J Surg Pathol. 2014; 38:13-22.

Protein Reference(s)

Database Name: UniProt

Accession number: P23771 (GATA3_HUMAN)

Species Accession: Human