



Cat. No.: BMS054 (16 ml Ready-to-use)

Instructions for use

Intended Use

This antibody is designed for the specific localization of GATA Binding Protein 3 (GATA3) in formalin-fixed, paraffinembedded tissue sections.

Anti-GATA-3 antibody is intended for in vitro diagnostic use.

Specifications

Specificity: Human GATA3

Synomym: GATA Binding Protein 3, HDR, HDRS

Clone: L50-823 Isotype: Mouse IgG1 κ

Species reactivity: Human +, others not tested

Immunogen: Peptide between trans-activation and DNA-binding domain of GATA3

Summary and explanation

GATA3 is a helpful marker for the diagnostics of breast and urothelial carcinomas (1). GATA3 is rarely expressed in other epithelial tumours with the exception of salivary gland and parathyroid tumours. Anti-GATA-3 antibody shows a high sensitivity for breast and urothelial carcinomas and is mainly negative in a variety of other tumours. Therefore it is recommended for diagnosis of unknown primary carcinoma, if either a breast or an urothelial tumour is suspected (2). Several new studies emphasise the sensitivity of GATA3 immunostainings in comparison to other markers like Mammaglobin and GCDFP-15. Very often GATA3 immunoreactivity could be detected in tumours in which other lineage specific proteins are no longer expressed.

Reagent provided

Mouse monoclonal antibody in buffer with carrier protein and preservative for stabilisation in the following format: **Ready-to-use:** 16 ml (Cat. No. BMS054)

Dilution of primary antibody

None

Storage and handling

The antibody should be stored at 2-8°C without further dilution.

If necessary, dilutions of the antibody should be done with a suitable antibody dilution buffer (e.g. ZUC025 from Zytomed Systems). The diluted antibody should be stored at 2-8°C after use. Stability of this working solution depends on various parameters and has to be confirmed by appropriate controls.

The antibody provided is stable until the expiry date indicated on the label, if stored at 2-8°C. Do not use product after the expiry date. Positive and negative controls should be run simultaneously with all specimens. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the antibody is suspected, contact Zytomed Systems' technical support or your local distributor.

Precautions

Use through qualified personnel only. Wear protective clothing to avoid contact of reagents and specimens with eye, skin and mucous membranes. If reagents or specimens come in contact with sensitive area, wash with large amounts of water.

Microbial contamination of the reagent must be avoided, since otherwise non-specific staining may occur. ProClin300 and sodium azide (NaN_3) are used for stabilisation. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Discard the antibody solution in a large volume of running water to avoid formation of deposits. A material safety data sheet (MSDS) for the pure substances is available upon request.

June 7, 2016 Rev: A0616 Doc: DBE BMS054

Staining procedure

Refer to the following table for conditions specifically recommended for this antibody. Also refer to detection system data sheets for guidance on specific staining protocols or other requirements.

Parameters Zytomed Systems recommendations

*Pre-treatment: Heat Induced Epitope Retrieval (for example in Citrate buffer pH 6.0 ZUC028)

*Control tissue Breast or urothelial carcinomas

*Working dilution None

*Incubation time 30 - 60 minutes

Quality control

The recommended positive control tissue for this antibody is lung squamous cell carcinoma. We recommend carrying out a positive and a negative control with every staining run. Please refer to the instructions of the detection system for guidance on general guality control procedures.

Troubleshooting

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, refer to the instructions of the detection system for relevant information or contact your local distributor.

Expected results

The antibody stains positive in the nuclei in formalin-fixed, paraffin-embedded tissue. Further details about the expression pattern of GATA3 can be found in the chapter 'Summary and Description'. The interpretation of the results is solely the responsibility of the user. Any experimental result should be confirmed by a medically established diagnostic procedure.

Limitations of the Procedure

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining, for example variations in fixation and embedding or the inherent nature of the tissue can cause inconsistent results (Nadji and Morales, 1983). Endogenous peroxidase, alkaline phosphatase or biotin may cause non-specific staining depending on the detection system used. Tissues containing Hepatitis B Surface Antigen (HBsAg) may give false positive results with HRP (horse radish peroxidase) detection systems (Omata et al, 1980). Inadequate counterstaining and mounting can influence the interpretation of

Zytomed Systems warrants that the product will meet all requirements described from its shipping date until the expiry date is reached, if the product is stored and utilised as recommended. No additional guarantees can be given. Under no circumstances shall Zytomed System be liable for any damages arising out of the use of the reagent provided.

Performance characteristics

Zytomed Systems has conducted studies to evaluate the performance of the antibody utilising a standard detection system. The product has been found to be sensitive and specific to the antigen of interest with minimal or no crossreactivity.

Bibliography

- 1. Ordonez NG. Adv Anat Pathol 20:352-360, 2013
- 2. Liu H et al. Am J Clin Pathol 138:57-64, 2012
- 3. Cimino-Mathews A et al. Hum Pathol 44:1341-1349, 2013
- 4. Krings G et al. Hum Pathol 45:2225-2232, 2014
- 5. Omata M et al. Am J Clin Pathol 73:626-632, 1980
- 6. Nadji M, Morales AR. Ann N Y Acad Sci 420:134-138, 1983

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Explanations of the symbols on the product label:

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	REF	Bestellnummer Catalog Number Reference du catalogue	\sim	Verwendbar bis Use By Utiliser jusque	\bigcap_i	Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation
	LOT	Chargenbezeichnung Batch Code Code du lot		Lagerungstemperatur Temperature Limitation Limites de température	RUO	Nur für Forschungszwecke For Research Use Only Pour la recherche uniquement
	IVD	In vitro Diagnostikum In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro	(! >	Achtung Warning Attention	Hersteller / Manufacturer / Fabricant Zytomed Systems GmbH • Anhaltinerstraße 16 14163 Berlin, Germany • Tel: (+49) 30-804 984 990 www.zytomed-systems.com	