



Rabbit anti-Mammaglobin

Cat. No.: RBK022-05 (0.5 ml Concentrate); RBG022 (6 ml Ready-to-use)

Instructions for use

Intended use

This antibody is designed for the specific localisation of the mammaglobin protein in formalin-fixed, paraffinembedded tissue sections. Anti-Mammaglobin antibody is intended for in vitro diagnostic use.

Specifications

Specificity:

Mammaglobin

Clone: Isotype:

31A5

Species reactivity:

Rabbit IgG Human +, others not tested

Summary and Description

Mammaglobin, a 10 kDa glycoprotein of unknown function, can be detected in the majority of primary and metastatic breast carcinomas. According to the current state of knowledge the mammaglobin gene is expressed almost exclusively in normal breast tissue and in breast carcinomas. Known exceptions are eccrine sweat glands of the skin which also express the gene.

Mammaglobin is thought to be a useful marker for characterisation of metastases of breast carcinomas. Studies have shown that in this context mammaglobin is more sensitive and specific than BRST-1 (BSA-225, TAG-90). In comparison with BRST-2 (GCDFP-15) mammaglobin is deemed to be slightly less specific but more sensitive. The determined values for mammaglobin were: 85 % specificity and 84.3 % sensitivity (compare Han et al. 2003).

Reagent provided

Rabbit monoclonal antibody from tissue culture supernatant in phosphate buffer pH 7.4 with carrier protein and preservative for stabilisation in the following formats:

Concentrate: Ready-to-use:

0.5 ml 6 ml

(Cat. No. RBK022-05) (Cat. No. RBG022)

Dilution of primary antibody

Dilution of Zytomed Systems' concentrated antibody depends on the detection system used. The final working dilution must always be determined by the user. The elaboration of staining protocol should be done by an experienced specialist. For Zytomed Systems' recommendations see chapter 'Staining procedure'.

Storage and handling

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

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

The antibody provided is suitable for use 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. Sodium azide (NaN₃), used for stabilisation, is not considered hazardous material in the concentration used. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Sodium azide should be discarded in a large volume of running water to avoid formation of deposits. A material safety data sheet (MSDS) for the pure substance is available upon request.

Staining procedure for formalin-fixed paraffin sections

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

*Pre-treatment

*Control tissue

*Working dilution *Incubation time

Zytomed Systems recommendations

Heat Induced Epitope Retrieval (for example in Citrate Buffer pH 6.0 (ZUC028))

Brest carcinoma

1:100-1:500 (for concentrates)

30 - 60 minutes

Quality control

The recommended positive control tissue for this antibody is a breast 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 quality control procedures.

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

This antibody stains positive in tumour cells of breast carcinomas (cytoplasmic or nuclear staining) in formalin-fixed, paraffin-embedded tissue sections. Interpretation of the staining 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 for use with a standard detection system. The product has been found to be sensitive and specific to the antigen of interest with minimal or no cross-reactivity.

Bibliography

Span PN et al. J Clin Oricol 22:691-698, 2004 Goedegebuure PS et al. Curr Cancer Drug Targets 4:531-542, 2004 Han JH et al. Arch Pathol Lab Med 127:1330-1334, 2003 Sjodin A et al. J Invest Dermatol 121:428-429, 2003 Colpitts TL et al. Biochem 40:11048-11059, 2001

Watson M et al. Cancer Res 59:3028-3031, 1999 Watson M et al. Cancer Res 56:860-865, 1996 Nadji M and Morales AR Ann N.Y. Acad Sci 420:134-9, 1983 Omata M et al. Am J Clin Pathol 73(5): 626-32, 1980

November 11, 2013 Explanations of the symbols on the product label:

Doc: DBE_RBK022-05 RBG022

REF	Bestellnummer Catalog Number Reference du catalogue	<u> </u>	Verwendbar bis Use By Utiliser jusque	Ti	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	(1)	Achtung Warning Attention	Zytomed 14163 Be	Hersteller / Manufacturer / Fabricant Zytomed Systems GmbH • Anhaltinerstraße 16 14163 Berlin, Germany • Tel: (+49) 30-804 984 990 www.zytomed-systems.com	