

CE IVD Rabbit anti-GCDFP-15 Cat. No.: RBK032-05 (0.5 ml Concentrate); RBG032 (6 ml Ready-to-use)

Instructions for use

Intended use

This antibody is designed for the specific localisation of GCDFP-15 protein in formalin-fixed, paraffin-embedded tissue sections and in frozen tissue sections. Anti-GCDFP-15 antibody is intended for in vitro diagnostic use.

Specifications	
Specificity:	Human GCDFP-15
Clone:	EP1582Y
Isotype:	Rabbit IgG
Species reactivity:	Human $+$, others not tested

Summary and Description

GCDFP-15 (Gross Cystic Disease Fluid Protein 15) is a secretory 15 kDa glycoprotein localised in apocrine metaplastic epithelium lining breast cysts and in apocrine glands of the axilla, vulva, eyelid and ear canal. GCDFP-15 is also detectable in serous cells of sub-mandibular, sub-lingual and small salivary glands as well as in glands of the nose and bronchial area.

Approximately 70% of breast carcinomas are positive for GCDFP-15. Colorectal carcinomas and mesotheliomas do not stain with this antibody. Adenocarcinomas of the lung show only rarely positive results with this antibody. GCDFP-15 is also known as BRST-2 or SABP (secretory actin-binding protein).

Reagent provided

Rabbit monoclonal antibody in PBS pH 7.4 with carrier protein and preservative for stabilisation in the following formats:

Concentrate: 0.5 ml (Cat. No. RBK032-05) Ready-to-use: 6 ml (Cat. No. RBG032)

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) Breast carcinoma or normal breast tissue 1:25-1:100 (for concentrates) 30 - 60 minutes

Quality control

The recommended positive control tissues for this antibody are breast carcinoma or normal breast tissue. 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.

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

This antibody stains positive in the cytoplasm of tumour cells in breast carcinoma or in cells of normal breast tissue in formalin-fixed, paraffin-embedded tissue sections. Additionally, an extracellular staining signal due to secreted GCDFP-15 may be observed. 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, pseudoperoxidase activity in erythrocytes 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 the results.

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

Takeda Y et al. Arch Pathol Lab Med 132:239-243, 2008 Liegl B et al. Histopathol 50:439-447, 2007 Bhargava R et al. Am J Clin Pathol 127:103-113, 2007 Tornos C et al. Am J Surg Pathol 29:1482-1489, 2005 Ansai S et al. Am J Dermatopathol 17:249-255, 1995 Cohen C et al. Arch Pathol Lab Med 117:291-294, 1993 Raju U et al. Mod Pathol 6:516-520, 1993 Wick MR et al. Hum Pathol 20:281-287, 1989 Mazoujian G, Mrgolis R. Am J Dermatopathol 10:28-35, 1988 Mazoujian G et al. Am J Pathol 110:105-112, 1983 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



www.zytomed-systems.de Zytomed Systems GmbH • Anhaltinerstraße 16 • 14163 Berlin, Germany • Tel: (+49) 30-804 984 990

Explanations of the symbols on the product label

Symbols are used in accordance with ISO 15223-1. Further symbols on the product label might be:



GSH07: Warning / Attention

For Research Use Only

Date of approval: 2023-05-15