

## BRST-2/GCDFP-15 (EP95)


### Rabbit anti-human Gross Cystic Disease Fluid Protein-15 (BRST-2/GCDFP-15) Monoclonal Antibody (Clone EP95)

#### REFERENCES AND PRESENTATIONS<sup>1</sup>

- **ready-to-use (manual or LabVision AutoStainer)**  
MAD-000742QD-3  
MAD-000742QD-7  
MAD-000742QD-12
- **Ready-to-use (MD-Stainer)<sup>2</sup>**  
MAD-000742QD-3/V  
MAD-000742QD/V
- **concentrated**  
MAD-000742Q - 1:50 recommended dilution

#### COMPOSITION

Anti-human BRST-2/GCDFP-15 rabbit monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

**INTENDED USE**  Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

**CLONE:** EP95<sup>3</sup>

**Ig ISOTYPE:** IgG

**IMMUNOGEN:** A synthetic peptide corresponding to residues in human Gross Cystic Disease Fluid Protein-15 (GCDFP-15) protein.

**SPECIES REACTIVITY:** In vitro diagnostics in humans. Not tested in other species

**DESCRIPTION AND APPLICATIONS:** Gross cystic disease fluid protein (GCDFP-15), also called prolactininducible protein (PIP), is a single polypeptide chain with a versatile function in human reproductive and immunological systems. GCDFP-15 binds to CD4, exerts a potent inhibition on T lymphocyte apoptosis mediated by CD4/T-cell



receptor (TCR) activation, and carries a fibronectin-specific aspartyl protease activity. It is up regulated by prolactin and androgens, while it is down regulated by estrogen. In normal adult tissues, GCDFP-15 expression was found in all apocrine, lacrimal, ceruminous, and Moll's glands and in numerous serous cells of the submandibular, sublingual, and minor salivary glands. The serous cells of nasal and bronchial glands were also positive. It is used as a marker of apocrine differentiation. GCDFP-15 has been found in the cyst fluid of cystic breast disease and primary and metastatic breast cancer, and considered a highly specific marker for identification of breast cancer. GCDFP-15 expression has also been found in other cancer types including salivary glands, sweat glands, prostate, and lung.

**IHC POSITIVE CONTROL:** Skin, breast

**VISUALIZATION:** Cell cytoplasm

#### IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8<sup>4</sup> for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

**STORAGE AND STABILITY:**  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored

<sup>1</sup> These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).  
- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).  
For different presentations (references / volumes) please contact the supplier.

<sup>2</sup> For Technical specifications for MD-Stainer, please contact your distributor.

<sup>3</sup> GCDFP-15 clone EP95 is manufactured using Epitomics's RabMAb® technology under U.S. Patent Nos. 5,675,063 and 7,402,409

<sup>4</sup> Ref: MAD-004072R/D



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under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

#### WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

#### SAFETY RECOMMENDATIONS










This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at [www.vitro.bio](http://www.vitro.bio) or can be requested at [regulatory@vitro.bio](mailto:regulatory@vitro.bio).

#### BIBLIOGRAPHY

1. Mazoujian G, Pinkus G S, Davis S, et al.. Immunohistochemistry of a gross cystic disease fluid protein (GCDFP-15) of the breast. Am J Pathol. 110: 105-12 (1983).
2. Fiel M I, Cernaianu G, Burstein D E, et al. Value of GCDFP-15 (BRST-2) as a specific immunocytochemical marker for breast carcinoma in cytologic specimens. Acta Cytol. 40: 637-41 (1996).
3. Hall R E, Clements J A, Birrell S N, et al.. Prostate-specific antigen and gross cystic disease fluid protein-15 are co-expressed in androgen receptor-positive breast tumours. Brit J Cancer. 78: 360-5 (1998).
4. Kapadia SB, Barnes L. Expression of androgen receptor, gross cystic disease fluid protein, and CD44 in salivary duct carcinoma. Mod Pathol. 11: 1033-8 (1998).
5. Viacava P, Naccarato A G and Bevilacqua G. Spectrum of GCDFP-15 expression in human fetal and adult normal tissues. Virchows Arch. 432: 255-60 (1998).
6. Longatto Filho A, Alves VA, Kanamura CT, Nonogaki S, Bortolan J, Lombardo V, Bisi H. Identification of the primary site of metastatic adenocarcinoma in serous effusions. Value of an immunocytochemical panel added to the clinical arsenal. Acta Cytol. 2002; 46:651-8 (2002).

#### LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet

