

## **Mammaglobin Cocktail, 7 ml Ready to use**

**Clones: 304-1A5 & 31A5**

**Cat. no.: MON-RTU1216**

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### **Specificity**

Mammaglobin (10 kD) is a breast-associated glycoprotein distantly related to secretoglobin family that includes human uteroglobin and lipophilin. Mammaglobin mRNA is present in high levels in human breast cancer cell lines, which has been shown to be a sensitive marker of breast cancer. When combined with other breast-restricted markers such as GCDFP-15, an overall sensitivity for breast carcinoma of 84% has been achieved. Anti-Mammaglobin can also be used to determine breast origin in the setting of metastatic carcinoma.

### **Immunoglobulin type**

Mouse IgG1, Rabbit IgG

### **Use**

Paraffin, Frozen

### **Preparation and Pretreatment**

1. Cut 3-4  $\mu$ m section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58°C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

### **Positive control**

Breast tissue, breast carcinoma

### **Staining pattern**

Cytoplasmic

### **Presentation**

7 ml. prediluted. Ready to use

Anti Mammaglobin is a purified mouse & rabbit monoclonal (304-1A5 & 31A5) cocktail antibody diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide.

### **Storage & handling**

Store antibody at 2-8°C until expiry date. For extended storage, the solution may be frozen in suitable aliquots. Avoid freeze/thaw cycles.

**MONOSAN, a brand name of SANBIO B.V.**

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## References:

1. Mark A. Watson, Suzanne Dintzis, et al., Mammaglobin expression in primary, metastatic, and occult cancer. *Cancer Research*. 1999 July; 59:3028-3031.
2. Fleming TP, Watson MA. Mammaglobin, a breast-specific gene, and its utility as a marker for breast cancer. *Ann N Y Acad Sci*. 2000; 923:78-89.
3. Jae-HO Han, Yup Kang, et al., Mammaglobin expression in lymph nodes is an important marker of metastatic breast carcinoma. *Arch Pathol Lab Med*. 2003 Oct. 127:1330-1334.
4. Bhargava R, Beriwal S, et al., Mammaglobin vs GCDFP-15: an immunohistologic validation survey for sensitivity and specificity. *Am J Clin Pathol*. 2007 Jan; 127(1):103-13.
5. Sasak E, Tsunoda N, et al., Breast-specific expression of MGB1/mammaglobin: an examination of 480 tumors from various organs and clinicopathological analysis of MGB1-positive breast cancers. *Mod Pathol*. 2007 Feb; 20 (2):208-14.
6. Wang Z, Spaulding B, et al., Mammaglobin, a valuable diagnostic marker for metastatic breast carcinoma. *Int J Clin Exp Pathol*. 2009; 2(4):384-9.

## Also available on request:

1 ml, prediluted	Ready to use
0.1 ml, concentrate	1:100 -1:500*
0.5 ml, concentrate	1:100 -1:500*
1 ml, concentrate	1:100 -1:500*

\* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

**FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.**

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