

## Product datasheet for **BM5548P**

### EMA (MUC1) Mouse Monoclonal Antibody [Clone ID: BC-2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	BC-2
Applications:	IHC, WB
Recommended Dilution:	Immunoblotting. Immunohistochemistry on Frozen and Paraffin Sections: 1/20; 1h at RT. Dilute immediately before use with PBS or TBS. Recommended Positive Control: Mamma Carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human milk fat globuline membrane preparation.
Specificity:	The human Mucin-1 antibody is reactive with 90% of breast carcinoma, most epithelial ovarian carcinoma and a high portion of the lung, urogenital and gastrointestinal carcinomas. Some reactivity is observed in the apical membrane of normal breast epithelium. Weak reactivity is also present in pancreas, kidney and lung. BC-2 reacts with a five amino acid epitope of the MUC-1 core protein which is less affective for glycosilation than most other MUC-1 epitopes. Localization: Cytoplasm and Membrane.
Formulation:	State: Purified State: Liquid purified IgG fraction containing 0.09% Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	mucin 1, cell surface associated
Database Link:	<a href="#">Entrez Gene 4582 Human P15941</a>



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**Background:**

MUC1 is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. It is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and overexpressed abundantly in >90% breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four ceB receptors and localize with erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. The major expressed form of MUC1 uses all seven exons and is a type 1 transmembrane protein with a large extracellular tandem repeat domain. The tandem repeat domain is highly O glycosylated and alterations in glycosylation have been shown in epithelial cancer cells.

**Synonyms:**

MUC-1, PEMT, Episialin, EMA, H23AG, PUM, DF3, CA 15-3