
CA153 Antibody Blocking Peptide

Catalog Number: bs-1239P

Activity: Not tested

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

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 cebB 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=8.173] Mo G et al. A novel ECL sensor based on a boronate affinity molecular imprinting technique and functionalized SiO@CQDs/AuNPs/MPBA nanocomposites for sensitive determination of alpha-fetoprotein. (2019) Biosens Bioelectron. Feb 1;126:558-564. Other ; Human . 30497022

[IF=5.999] Zhi Luo. et al. An electrochemiluminescence immunosensor based on ABEI-GO-AgNPs as a double-amplified luminophore for the ultra-sensitive detection of prostate-specific antigen. COLLOID SURFACE B. 2022 Oct;218:112718 Other ; . 35905591

[IF=5.6] Chen Cui. et al. Ultrasensitive ECL immunoassay for CA15-3 via self-enhanced L012-loaded ZnNi-MOF as an emitter and CeO₂-Pt as a co-reaction accelerator. TALANTA. 2024 Oct;;127120 ; . 39489068

[IF=3.101] Cao Y et al. Detection of three tumor biomarkers in human lung cancer serum using single particle ICP-MS combined with magnetic immunoassay. Spectrochimica Acta Part B: Atomic Spectroscopy, 105797 (2020). Other ; Human . doi:10.1016/j.sab.2020.105797