

## MUC-4 (Clone ZM201) Mouse Monoclonal Antibody

**Specificity:** Human. Others not known

**Immunogen:** Recombinant fragment (around aa 1730-1864) of human MUC4 protein

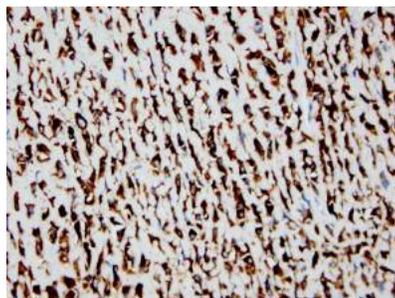
**Ig Class:** IgG2b/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Colon. *Cellular Localization:* Cytoplasmic. *Intended Use:* In Vitro Diagnosis (IVD).

**Description:** Mucin 4, a membrane-bound mucin, is the human homolog of the rat sialomucin complex (SMC). The Mucin 4 gene is the predominant mucin gene expressed in the normal urothelium and is also expressed in several normal tissues such as trachea, lung and testis. Dysregulation of mucin 4 results in high levels of expression in pancreatic tumors and tumor cell lines. Induction of mucin 4 in pancreatic carcinoma by all-trans-retinoic acid is mediated through the retinoic acid receptor- $\alpha$  signaling pathway. MUC-4 is a very specific (100%) and sensitive (90%) marker of lung adenocarcinomas and is negative for mesotheliomas. MUC4 is expressed in many human adenocarcinomas. It is specifically expressed in low-grade fibromyxoid sarcoma. Reportedly, MUC-4 expression in invasive ductal carcinoma of the pancreas is an independent factor for poor prognosis.

**Supplied As:** Purified antibody in 0.2% BSA and 15mM sodium azide.



### References:

1. Moniaux N, et al. *J Histochem Cytochem.* 2004; 52:253-61.
2. Moniaux N, et al. *Br J Cancer.* 2004; 91:1633-8.
3. Llinares K, et al. *Mod Pathol.* 2004; 17:150-7.

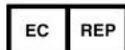
*Formalin-fixed, paraffin-embedded human low-grade fibromyxoid sarcoma stained with anti-MUC-4 antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of tumor cells*

**Cat. #Z2520 (1.0 ml)**

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