



BMA BIOMEDICALS

Monoclonal Antibody to Gastric Mucin

Specific Marker for Gastric Mucin

Mucins are a family of high molecular weight glycoproteins with sugar moieties accounting for the larger portion of their molecular weight. This particular mucin recognized by monoclonal antibody PSM65 is produced by gastric foveolar cells, a cell type of gastric pits with columnar epithelial characteristic. The extensive glycosylation of mucins accounts for their impressive hydration capacity and resistance to proteolysis, and for their protective properties against stomach acid. MUC5AC, together with MUC6 and the protective peptide TFF2, are characteristic constituents of gastric mucus.

This antibody was produced in vitro in bioreactors.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-3563 (Lot 01PO1908)
Clone:	PSM65
Host species, isotype:	Mouse IgG1
Quantity:	200µg
Format:	Affinity purified from cell culture supernatant, lyophilized, packaged under nitrogen. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 6mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Paraffin sections: 5µg/ml (1:80); pretreatment in microwave with citrate buffer for antigen retrieval is recommended Optimal dilutions should be determined by the end user Suggested positive control: swine stomach, fundic region Please see www.bma.ch for protocols and general information
Immunogen:	Porcine stomach extract
Protein database:	<u>pig-O97867</u>
Antigen, epitope:	Western Blot of stomach extracts indicates a high molecular weight antigen (>>180kDa). Together with the histological

picture and limited expression in the stomach, the antigen with these properties is Muc5AC (UniProt O97867 and A0A287ANG4, uncharacterized protein of 440kDa molecular weight), by analogy.

Antigen distribution:

Tissue sections: Porcine stomach. Negative with porcine colon, liver or uterus. Faint reaction with lung tissue.

Specificity:

Pig: stomach

Other: not tested with other species

For in vitro research only. This product contains Kathon™ CG as a preservative.