OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA363873

MUC5AC Mouse Monoclonal Antibody [Clone ID: PSM65]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PSM65
Applications:	ELISA, IHC, WB
Recommended Dilution:	Each lot of this antibody has been tested and validated for immunohistochemistry on formalin-fixed paraffin sections (IHC-p). Approximate working dilution for IHC: Paraffin sections: 5µg/ml (1:80); microwave pretreatment for antigen retrieval is recommended.
Reactivity:	Pig
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	Porcine stomach extract.
Specificity:	Pig: stomach Other: not tested with other species. **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. **Distribution**: Tissue sections: Porcine stomach. Negative with porcine colon, liver or uterus. Faint reaction with lung tissue.
Formulation:	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.
Concentration:	N/A
Conjugation:	Unconjugated
Storage:	Original vial: 1 year at 4° - 8°C. Minimize repeated thawing and freezing of the stock solution.
Database Link:	O97867

View online »

Background:

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 characterisitc constituents of gastric mucous. This antibody was produced in vitro in bioreactors.