

**AP31966PU-N****Polyclonal Antibody to Smgc - Aff - Purified**

<b>Alternate names:</b>	Muc19, Submandibular gland protein C
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	Detected in terminal tubule cells of the submandibular gland (at protein level). Expressed in submandibular salivary glands of 3-day-old males but not adults. Expression in adult submandibular glands is restricted to females. Isoform 5 is expressed in both 3-day-old and adult sublingual glands.
<b>Uniprot ID:</b>	<a href="#">Q6JHY2</a>
<b>NCBI:</b>	<a href="#">NP_945121.1</a>
<b>GeneID:</b>	<a href="#">223809</a>
<b>Host:</b>	Goat
<b>Immunogen:</b>	Synthetic peptide: KLEPKYENPTNGS with a Cysteine residue linker, corresponding to internal sequence amino acids 518-530 of Mouse Muc19 (NP_945121.1). <b>Genename:</b> Smgc <b>AA Sequence:</b> KLEPKYENPTNGS
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Ammonium Sulphate Precipitation followed by Antigen Affinity Chromatography using the immunizing peptide <b>Buffer System:</b> Tris saline, pH~7.3 <b>Preservatives:</b> 0.02% Sodium Azide <b>Stabilizers:</b> 0.5% BSA
<b>Applications:</b>	<b>Peptide ELISA:</b> 1/16000 (Detection limit). <b>Western blot:</b> Preliminary experiments gave bands at approx 65kDa and 70kDa in Mouse fetal Lung lysates after 1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 74.4kDa according to NP_945121.1. Both detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands). <b>Immunocytochemistry:</b> 4 µg/ml. Positive staining of select epithelial cells in the murine Submanibular gland at E18. <i>Data provided by Melinda Larsen, State University of New York, Albany, NY.</i> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes Mouse Muc19 /Smgc. Other species not tested.

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**Product Citations:** **Purchased from Acris:**  
1. Yamamoto M, Nakata H, Kumchantuek T, Sakulsak N, Iseki S. Immunohistochemical localization of keratin 5 in the submandibular gland in adult and postnatal developing mice. *Histochem Cell Biol.* 2016 Mar;145(3):327-39. doi: 10.1007/s00418-015-1392-5. Epub 2015 Dec 15. PubMed PMID: 26671786.  
2. Yamamoto, M;Nakata, H;Kumchantuek, T;Adhapanyawanich, K;Iseki, S. Distinct hormonal regulation of two types of sexual dimorphism in submandibular gland of mice *Cell Tissue Res.* 2017. PubMed PMID: 29079883.

**Pictures:** AP31966PU-N (4 µg/ml) staining of Mouse SubMandibular Gland cells at E18. Nuclear counterstain with DAPI in green.

