

Anti-Glycoprotein-340 (gp-340)
Mouse monoclonal antibody

 Subclass: IgG / κ

CAT. NO.

HYB 213-06

Clone: 1G4

SPECIFICITY	HYB 213-06 reacts with gp-340 also known as salivary scavenger and agglutinin.
IMMUNOGEN	Native gp-340 purified from bronchoalveolar lavage fluid from patients with pulmonary alveolar proteinosis.
TESTED APPLICATIONS	ELISA, WB, IHC
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Protein chain (1)

PRESENTATION

Content:	Available in 400 μ L and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION	<p>ELISA: HYB 213-06 can be used in ELISA (2).</p> <p>WB: In Western blotting after SDS-PAGE HYB 213-06 reacts strongly with gp-340 in non-reduced forms only. A dilution guideline of 1/2000 has proved successful (1, 2, 3, 4).</p> <p>IHC: HYB 213-06 can be used in IHC (1, 2).</p>
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TARGET	Glycoprotein (gp)-340 is member of the scavenger receptor superfamily and has been identified as a putative SP-D receptor. Gp-340 has been shown to bind SP-D in a calcium-dependent manner through a protein-protein interaction. Like SP-D, gp-340 is found in the lungs and immunohistochemistry shows high expression in alveolar macrophages. An identical protein, salivary agglutinin, is present in saliva (1, 2, 3) and both gp-340 and salivary agglutinin are encoded by the gene DMBT1.
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REFERENCES	<ol style="list-style-type: none"> Bikker FJ, Ligtenberg AJ, van der Wal JE, van den Keijbus PA, Holmskov U, Veerman EC, Nieuw Amerongen AV (2002) Immunohistochemical detection of salivary agglutinin/gp-340 in human parotid, submandibular, and labial salivary glands. <i>J Dent Res</i> 81:134-139. Ligtenberg TJM, Bikker FJ, Groenink J, Tornoe I, Leth-Larsen R, Veerman EC, Nieuw Amerongen AV, Holmskov U (2001) Human salivary agglutinin binds to lung surfactant protein-D and is identical with scavenger receptor protein gp-340. <i>Biochem J</i> 359:243-248. Prakobphol A, Xu F, Hoang VM, Larsson T, Bergstrom J, Johansson I, Frangsmyr L, Holmskov U, Leffler H, Nilsson C, Boren T, Wright JR, Stromberg N, Fisher SJ (2000) Salivary agglutinin, which binds <i>Streptococcus mutans</i> and <i>Helicobacter pylori</i>, is the lung scavenger receptor cysteine-rich protein gp-340. <i>J Biol Chem</i> 275:39860-39866. Heo SM, Choi KS, Kazim LA, Reddy MS, Haase EM, Scannapieco FA, Ruhl S. (2013) Host defense proteins derived from human saliva bind to <i>Staphylococcus aureus</i> <i>Infect. Immunol.</i> 1364-73. doi: 10.1128/IAI.00825-12.
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