

**Anti Glycoprotein-340 (gp-340)  
Mouse Monoclonal Antibody**Subclass: IgG<sub>1</sub>/κ

PRODUCT NO. **HYB 213-06**

PRESENTATION Preparation: Protein-A/G purified  
Content: 1 ml, 1 mg/mL  
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide  
Storage: In the dark at 4-8°C

ANTIGEN Glycoprotein-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 mainly found in lung tissue and immunohistochemistry revealed high expression in alveolar macrophages (3). An identical protein is present in saliva (salivary agglutinin) and both forms are encoded by the gene DMBT1 (6).

IMMUNOGEN Native gp-340 purified from bronchioaveolar lavage from proteinosis patients

SPECIFICITY HYB 213-06 is specific for gp-340

EPI TOPE SPECIFICITY Not determined

REACTIVITY In Western blotting after SDS-PAGE HYB 213-06 reacts strongly with gp-340 in non-reduced forms.

CULTURE MEDIUM RPMI 1640 with 10% fetal calf serum

FUSION PARTNER SP2/O-Ag14.

IMMUNIZATION Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)<sub>3</sub>

Method	Usability	Dilution guideline	References
ELISA	Yes	1:16,000	
Immunoblotting	Yes	1:1000	1,5,6
Immunohistochemistry	Yes	1:100	1,2,4

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.2 µg/ml. Users should determine the optimal dilutions for their own purposes.

- REFERENCES
- Ligtenberg TJ, 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. *Biochem J* 359:243-248.
  - Bikker FJ, Ligtenberg AJ, van der Wal JE, van der 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. *J Dent Res* 81:134-139.
  - Holmskov U, Mollenhauer J, Madsen J, Vitved L, Gronlund J, Tornoe I, Kliem A, Reid KB, Poustka A, Skjodt K (1999) Cloning of gp-340, a putative opsonin receptor for lung surfactant protein D. *Proc Natl Acad Sci USA* 96:10794-10799.
  - Bisgaard HC, Holmskov U, Santoni-Rugiu E, Nagy P, Nielsen O, Ott P, Hage E, Dalhoff K, Rasmussen LJ, Tygstrup N (2002) Heterogeneity of ductular reactions in adult rat and human liver revealed by novel expression of deleted in malignant brain tumor 1. *Am J Pathol* 161:1187-1198.
  - 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 *Streptococcus mutans* and *Helicobacter pylori*, is the lung scavenger receptor cysteine-rich protein gp-340. *J Biol Chem* 275:39860-39866.
  - Bikker FJ, Ligtenberg AJ, Nazmi K, Veerman EC, van't Hof W, Bolscher JG, Poustka A, Nieuw Amerongen AV, Mollenhauer J (2002) Identification of the bacteria-binding peptide domain on salivary agglutinin (gp-340/DMBT1), a member of the scavenger receptor cysteine-rich superfamily. *J Biol Chem* 277:32109-32115.
  - Kang W, Nielsen O, Fenger C, Madsen J, Hansen S, Tornoe I, Eggleton P, Reid KB, Holmskov U (2002) The scavenger receptor, cysteine-rich domain-containing molecule gp-340 is differentially regulated in epithelial cell lines by phorbol ester. *Clin Exp Immunol* 130:449-458.

**CONDITIONS**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.