

**MOUSE ANTI-MUC5AC MUCIN
MONOCLONAL ANTIBODY**

CATALOG NUMBER: MAB2011

LOT NUMBER:

QUANTITY: 100 µg

SPECIFICITY: Mucins are high molecular weight glycoproteins that are heavily glycosylated with oligosaccharide side chains linked O-glycosidically to the protein backbone. At least nine mucin genes have been identified to date. The pattern of tissue and cell-specific expression of these mucin genes suggests a distinct role for each member of the diverse mucin family. In epithelial cancers, many of the phenotypic markers for pre-malignant and malignant cells have been found on the carbohydrate and peptide moieties of mucin glycoproteins. Deregulation of tissue and cell-specific expression of mucin genes has also been described in epithelial cancers. At present, the role of mucin glycoproteins in various states of epithelial cell carcinogenesis, including the pre-neoplastic state and metastasis, is under investigation.

Antibody MAB2011 is specific for the MUC5AC tandem repeat of human mucin. Immunoreactivity of MAB2011 has been detected in the following normal human epithelial tissues: bronchus, endocervix, stomach, and gallbladder. The predominant staining pattern in normal tissues is perinuclear. Antibody reactivity has been observed in foveolar and mucopeptic neck cells of normal gastric mucosa. The expression of MUC5AC has been frequently observed in gastric carcinomas and may be used as a marker of gastric differentiation.

IMMUNOGEN: Directed against a synthetic peptide of the MUC5AC tandem repeat.

ISOTYPE: Mouse IgG₁

CLONE NAME: CLH2

APPLICATIONS: Western blot
Immunocytochemistry
Immunohistochemistry. Effective on frozen and paraffin sections at 1:1000-1:2000 dilution.
ELISA
Immunoprecipitation
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Human. Other species not tested.

FORMAT: Purified immunoglobulin.

PRESENTATION: Liquid at 1 mg/mL in 0.02M phosphate buffer, 0.25 M sodium chloride, 0.1% sodium azide, pH 7.6.

STORAGE/HANDLING: Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.

For research use only; not for use as a diagnostic.

REFERENCES: *Int'l. J. Cancer* (1997) **74**: 112.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.

© 2002-2004: CHEMICON International, Inc. - By CHEMICON International, Inc. All rights reserved. No part of these works may be reproduced in any form without permissions in writing.

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000 • Germany +49-6192-207300 • ISO Registered worldwide
www.chemicon.com • custserv@chemicon.com • techserv@chemicon.com