# Acinar-1 (3.7A12)

## INVESTIGATOR

**Name** Robert C. De Lisle
**Address** Dept. of Anatomy & Cell Biology, University of Kansas School of Medicine, Kansas City, KS 66160
**E-mail** rdelisle@kumc.edu

## IMMUNOGEN

**Substance**
- **Name** primary culture of pancreatic acinar cells
- **Origin** mouse
- **Chemical Composition**

**Developmental Stage** dedifferentiated/transdifferentiated adult cells

## IMMUNIZATION PROTOCOL

**Donor Animal**
- **Species** rat
- **Strain** Sprague-Dawley
- **Sex** female
- **Organ and tissue** spleen

**Immunization**
- **Dates immunized** 3 week intervals; three in vivo, one in vitro immunization
- **Amount of antigen** $4 \times 10^6$ cells primary; $20 \times 10^6$ cells boost
- **Route of immunization** intraperitoneal (in vivo); spleen cells on fixed acinar culture (in vitro)
- **Adjuvant** no adjuvant

## FUSION

**Date** 1/21/1986

**Myeloma cell line**
- **Species** mouse
- **Designation** SP2/0

## MONOCLONAL ANTIBODY

**Isotype** IgG2a

**Specificity**
- **Cell binding** apical plasma membrane of pancreatic, lacrimal, salivary acinar cell; bile canaliculus; small intestine; 4 % paraformaldehyde or fresh frozen/MeOH acetone
- **Immunohistology**
- **Antibody competition** not determined

**Species Specificity** mouse

## ANTIGEN

**Chemical properties** membrane glycoprotein

**Molecular weight** 94 kDa

**Characterization**
- **Immunoprecipitation** yes
- **Immunoblotting** yes
- **Purification** yes
- **Amino acid sequence analysis** not determined

**Functional effects** not determined

**Immunohistochemistry** apical plasma membrane of pancreatic, lacrimal, salivary acinar cell; bile canaliculus; small intestine; 4 % paraformaldehyde or fresh frozen/MeOH acetone

## PUBLICATIONS :

De Lisle, R.C., Logsdon, C.D., Hootman, S.R., and Williams, J.A. (1988). Monoclonal antibodies as probes for plasma membrane domains in the exocrine pancreas. J. Histochem. Cytochem. 36, 1043-1051.

De Lisle, R.C., Grendell, J.H., and Williams, J.A. (1990). Growing pancreatic acinar cells (postpancreatitis and fetal) express a ductal antigen. Pancreas 5, 381-388.

(Continued)

**Acinar-1 (3.7A12)** (Continued)

De Lisle, R.C., and Logsdon, C.D. (1990). Pancreatic acinar cells in culture: expression of acinar and ductal antigens in a growth-related manner. Eur. J. Cell Biol. 51, 64-75.

De Lisle, R.C. (1991). A quantitative dot-blot immunoassay for integral membrane proteins: preparation of pancreatic plasma membranes containing both basolateral and apical markers. Anal. Biochem. 192, 1-5.

Schmid, R.M., Kloppel, G., Adler, G., and Wagner, M. (1999). Acinar-ductal-carcinoma sequence in transforming growth factor-alpha transgenic mice. Ann. N.Y. Acad. Sci. 880, 219-230.

ACKNOWLEDGMENTS STATEMENT

We have been asked by NICHD to ensure that all investigators include an acknowledgment in publications that benefit from the use of the DSHB's products. We suggest that the following statement be used:

"The (select: hybridoma, monoclonal antibody, or protein capture reagent,) developed by [Investigator(s) or Institution] was obtained from the Developmental Studies Hybridoma Bank, created by the NICHD of the NIH and maintained at The University of Iowa, Department of Biology, Iowa City, IA 52242."

Please send copies of all publications resulting from the use of Bank products to:

Developmental Studies Hybridoma Bank
Department of Biology
The University of Iowa
028 Biology Building East
Iowa City, IA 52242