



# DEVELOPMENTAL STUDIES HYBRIDOMA BANK

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## FE-C6

(Only cell products will be distributed.)

### INVESTIGATOR

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### IMMUNOGEN

#### Substance

**Name** rat testicular cells

**Origin**

**Chemical Composition**

#### Developmental Stage

### IMMUNIZATION PROTOCOL

#### Donor Animal

**Species** mouse

**Strain** BALB/c

**Sex** male

**Organ and tissue** splenocytes

#### Immunization

**Dates immunized** 5-1-81

5-15 - 6-26-81

7-3-81

**Amount of antigen** 10<sup>8</sup> cells

10<sup>8</sup> cells, weekly

10<sup>8</sup> Nulli SCC1 EC cells

**Route of immunization** i.p.

i.p. and s.c.

i.p. and s.c.

**Adjuvant** complete Freund's

none

none

### FUSION

**Date** 7-6-81

#### Myeloma cell line

**Species** mouse

**Designation** NS-1

### MONOCLONAL ANTIBODY

**Isotype** IgM

#### Specificity

**Cell binding** cell surface binding to rat and mouse testicular cells, and early mesoderm (requires neuraminidase treatment)

**Immunohistology**

**Antibody competition**

#### Species Specificity

### ANTIGEN

**Chemical properties** carbohydrate epitope carried on glycolipids and glycoproteins (e.g., desialylated human  $\alpha_1$ -acid glycoprotein): Gal  $\beta$  1-4 G1cNAc  $\beta$  1-6 R

#### Molecular weight

#### Characterization

**Immunoprecipitation**

**Immunoblotting** see references

**Purification**

**Amino acid sequence analysis**

#### Functional effects

**Immunohistochemistry** see references

### PUBLICATIONS :

Fenderson, B.A., Hahnel, A.C., and Eddy, E.M. (1983). Immunohistochemical localization of two monoclonal antibody-defined carbohydrate antigens during early murine embryogenesis. Dev. Biol. 100, 318-327.

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**FE-C6** (Continued)

- Fenderson, B.A., Nichols, E.J., Clausen, H., and Hakomori, S. (1986). A monoclonal antibody defining a binary N-acetyllactosaminyl structure in lactoisocholesterol: A useful probe for determining differential glycosylation patterns between normal and transformed human fibroblasts. *Molec. Immun.* 23, 747-754.
- Nichols, E.J., Fenderson, B.A., Carter, W.G., and Hakomori S. (1986). Domain-specific distribution of carbohydrates in human fibronectins and the transformation-dependent translocation of branched type 2 chain defined by monoclonal antibody C6. *J. Biol. Chem.* 261, 11295-11301.
- Fenderson, B.A., Eddy, E.M., and Hakomori, S. (1988). The blood group I antigen defined by monoclonal antibody C6 is a marker of early mesoderm during murine embryogenesis. *Differentiation* 38, 124-133.
- Fenderson, B.A., Eddy, E.M., and Hakomori, S. (1990). Glycoconjugate expression during embryogenesis and its biological significance (Review). *BioEssays* 12, 173-179.
- Pfendler, K.C., Yoon, J., Taborn, G.U., Kuehn, M.R., and Iannaccone, P.M. (2000). Nodal and Bone Morphogenetic Protein 5 interact in murine mesoderm formation and implantation. *Genesis* 28, 1-14.

**ACKNOWLEDGMENTS STATEMENT**

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