MC-480  (SSEA-1)
(Only cell products will be distributed)

INVESTIGATOR
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IMMUNOGEN
Substance  F9 teratocarcinoma stem cells, X-irradiated
Name
Origin
Chemical Composition
Developmental Stage

IMMUNIZATION PROTOCOL
Donor Animal
Species  mouse
Strain  BALB/c
Sex  male
Organ and tissue  spleen
Immunization
Dates immunized  7 weekly injections last 7/25/77
Amount of antigen  10^7 cells
Route of immunization  intraperitoneal
Adjuvant  none

FUSION
Date  7/28/77
Myeloma cell line
Species  mouse
Designation  P3-X63-Ag8

MONOCLONAL ANTIBODY
Isotype  IgM, kappa light chain
Specificity
Cell binding  early mouse embryos, embryonal carcinoma cells
Immunohistology  see references
Antibody competition
Species Specificity  MC-480 recognizes mouse embryos, mouse embryonic cells (EC), mouse embryonic stem cells (ES) and mouse & human embryonic germ cells (EG). MC-480 does not bind to human EC, ES or iPS cells.

ANTIGEN
Chemical properties  carbohydrate epitope on glycolipids and glycoproteins involving fucosylated type 2 blood group chains
Molecular weight
Characterization
Immunoprecipitation  Galβ1→4 G1cNacβ1→R
↑1,3
Immunoblotting  Fucα
Purification
Amino acid sequence analysis
Functional effects  unknown
Immunohistochemistry

PUBLICATIONS:

(Continued)
MC-480 (SSEA-1) (continued)


(continued)
MC-480 (SSEA-1)  (continued)


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.”

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