DEVELOPMENTAL STUDIES HYBRIDOMA BANK
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H4C4

INVESTIGATOR

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IMMUNOGEN

Substance
- **Name** adherent spleen cells
- **Origin** human
- **Chemical Composition**

Developmental Stage adult

IMMUNIZATION PROTOCOL

Donor Animal
- **Species** mouse
- **Strain** BALB/C
- **Sex** female
- **Organ and tissue** spleen

Immunization
- **Dates immunized** 1983
- **Amount of antigen** 5×10^6 cells
- **Route of immunization** i.p.
- **Adjuvant** none

FUSION

Date 1983

Myeloma cell line
- **Species** mouse
- **Designation** P3X653-Ag8

MONOCLONAL ANTIBODY

Isotype IgG1

Specificity
- **Cell binding** +
- **Immunohistology** +
- **Antibody competition**

Species Specificity human

ANTIGEN

Chemical properties CD44 (see publications)
Molecular weight
Characterization
- **Immunoprecipitation**
- **Immunoblotting**
- **Purification**
- **Amino acid sequence analysis**

Functional effects
Immunohistochemistry

PUBLICATIONS :

Hughes, E.N., and August, J.T. (1981). Characterization of plasma membrane proteins identified by monoclonal antibodies. J. Biol. Chem. 256, 664-671.

Colombatti, A., Hughes, E.N., Taylor, B.A., and August, J.T. (1982). Gene for a major cell surface glycoprotein of mouse macrophages and other phagocytic cells is on chromosome 2. Proc. Natl. Acad. Sci. USA 79, 1926-1929.

Hughes, E.N., Colombatti, A., and August, J.T. (1983). Murine cell surface glycoproteins: Purification of the polymorphic Pgp-1 antigen and analysis of its expression on macrophages and other myeloid cells. J. Biol. Chem. 258, 1014-1021. (Continued)

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Jacobson, K., O'Dell, D., Holifield, B., Murphy, T.L., and August, J.T. (1984). Redistribution of a major cell surface glycoprotein during cell movement. J. Cell Biol. 99, 1613-1623.

Jacobson, K., O'Dell, D., and August, J.T. (1984). The lateral diffusion of an 80,000 Da glycoprotein in the plasma membrane of murine fibroblasts: relationships to cell structure and function. J. Cell Biol. 99, 1624-1633.

Wolffe, E.J., Gause, W.C., Palfrey, C.M., Holland, S.M., Steinberg, A.D., and August, J.T. (1990). The cDNA sequence of mouse Pgp-1 and homology to human CD44 cell surface antigen and proteoglycan core/link proteins. J. Biol. Chem. 265, 341-347.

Belitsos, P.C., Hildreth, J.E.K., and August, J.T. (1990) Homotypic cell aggregation induced by antiCD44(Pgp-1) and monoclonal antibodies and related to CD44(Pgp-1) expression. J. Immunol. 144, 1661-1670.

Young, H.E., and Black, Jr., A.C. (2004). Adult stem cells. Anat. Rec. Part A 276A, 75-102.

Pandit, S.R., Sullivan, J.M., Egger, V., Borecki, A.A., and Oleskevich, S. (2011). Functional effects of adult human olfactory stem cells on early-onset sensorineural hearing loss. Stem Cells 29, 670-677.

ACKNOWLEDGMENTS STATEMENT

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