

REFERENCES

- Abbas AK, Lichtman AH, Pober JS. Cellular and molecular immunology. 4th ed. Philadelphia ; London: W.B. Saunders; 2000.
- Alberts B. Molecular biology of the cell. 4. ed. New York: Garland Science; 2002.
- Ali RS, Falconer A, Ikram M, Bissett CE, Cerio R, Quinn AG. Expression of the peptide antibiotics human beta defensin-1 and human beta defensin-2 in normal human skin. *J Invest Dermatol* 2001;117(1):106-11.
- Altruda F, Cervella P, Gaeta ML, Daniele A, Giancotti F, Tarone G, et al. Cloning of cDNA for a novel mouse membrane glycoprotein (gp42): shared identity to histocompatibility antigens, immunoglobulins and neural-cell adhesion molecules. *Gene* 1989;85(2):445-51.
- Andree HA, Stuart MC, Hermens WT, Reutelingsperger CP, Hemker HC, Frederik PM, et al. Clustering of lipid-bound annexin V may explain its anticoagulant effect. *J Biol Chem* 1992;267(25):17907-12.
- Armitage RJ, Tough TW, Macduff BM, Fanslow WC, Spriggs MK, Ramsdell F, et al. CD40 ligand is a T cell growth factor. *Eur J Immunol* 1993;23(9):2326-31.
- Banchereau J, Bazan F, Blanchard D, Briere F, Galizzi JP, van Kooten C, et al. The CD40 antigen and its ligand. *Annu Rev Immunol* 1994;12:881-922.
- Belardelli F, Ferrantini M. Cytokines as a link between innate and adaptive antitumor immunity. *Trends Immunol* 2002;23(4):201-8.
- Berdichevski F, Chang S, Bodorova J, Hemler ME. Generation of monoclonal antibodies to integrin-associated proteins. Evidence that alpha3beta1 complexes with EMMPRIN/basigin/OX47/M6. *J Biol Chem* 1997;272(46):29174-80.
- Biswas C, Zhang Y, DeCastro R, Guo H, Nakamura T, Kataoka H, et al. The human tumor cell-derived collagenase stimulatory factor (renamed EMMPRIN) is a member of the immunoglobulin superfamily. *Cancer Res* 1995;55(2):434-9.

- Boyd AW, Wawryk SO, Burns GF, Fecondo JV. Intercellular adhesion molecule 1 (ICAM-1) has a central role in cell-cell contact-mediated immune mechanisms. *Proc Natl Acad Sci U S A* 1988;85(9):3095-9.
- Brandtzaeg P. Immunobarriers of the mucosa of the upper respiratory and digestive pathways. *Acta Otolaryngol* 1988a;105(1-2):172-80.
- Brandtzaeg P. Mucosal immunology--with special reference to specific immune defence of the upper respiratory tract. *ORL J Otorhinolaryngol Relat Spec* 1988b;50(4):225-35.
- Cheng Y, Li X, Kamholz J, Burns FR. Organization of the mouse GP42/Basigin gene: a member of the Ig superfamily. *Biochim Biophys Acta* 1994;1217(3):307-11.
- Cooper GM. *The cell : a molecular approach*. 2. ed. Washington, D.C.: ASM Press; 2000.
- Diamandis EP, Christopoulos TK. *Immunoassay*. San Diego: Academic Press; 1996.
- Earl PL, Broder CC, Doms RW, Moss B. Epitope map of human immunodeficiency virus type 1 gp41 derived from 47 monoclonal antibodies produced by immunization with oligomeric envelope protein. *J Virol* 1997;71(4):2674-84.
- Elenkov IJ, Chrousos GP. Stress Hormones, Th1/Th2 patterns, Pro/Anti-inflammatory Cytokines and Susceptibility to Disease. *Trends Endocrinol Metab* 1999;10(9):359-368.
- Fadok VA, Voelker DR, Campbell PA, Cohen JJ, Bratton DL, Henson PM. Exposure of phosphatidylserine on the surface of apoptotic lymphocytes triggers specific recognition and removal by macrophages. *J Immunol* 1992;148(7):2207-16.
- Fadool JM, Linsler PJ. 5A11 antigen is a cell recognition molecule which is involved in neuronal-glial interactions in avian neural retina. *Dev Dyn* 1993;196(4):252-62.
- Feteanu A. *Labelled antibodies in biology and medicine*. 2d ed. Tunbridge Wells, Eng. New York: Abacus Press ; McGraw-Hill International Book; 1978.
- Fossum S, Mallett S, Barclay AN. The MRC OX-47 antigen is a member of the immunoglobulin superfamily with an unusual transmembrane sequence. *Eur J Immunol* 1991;21(3):671-9.
- Gluzman Y. SV40-transformed simian cells support the replication of early SV40 mutants. *Cell* 1981;23(1):175-82.
- Guo H, Li R, Zucker S, Toole BP. EMMPRIN (CD147), an inducer of matrix metalloproteinase synthesis, also binds interstitial collagenase to the tumor cell surface. *Cancer Res* 2000;60(4):888-91.

- Harlow E, Lane D. *Antibodies : a laboratory manual*. Cold Spring Harbor, N.Y: Cold Spring Harbor Laboratory; 1988.
- Harlow E, Lane D. *Using antibodies : a laboratory manual*. Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory Press; 1999.
- Hart PH. Regulation of the inflammatory response in asthma by mast cell products. *Immunol Cell Biol* 2001;79(2):149-53.
- Hemmila IA. *Applications of fluorescence in immunoassays*. New York: Wiley; 1991.
- Hou HS, Su YP, Shieh HK, Lee LH. Monoclonal antibodies against different epitopes of nonstructural protein sigmaNS of avian reovirus S1133. *Virology* 2001;282(1):168-75.
- Jankovic D, Liu Z, Gause WC. Th1- and Th2-cell commitment during infectious disease: asymmetry in divergent pathways. *Trends Immunol* 2001;22(8):450-7.
- Juel C, Halestrap AP. Lactate transport in skeletal muscle - role and regulation of the monocarboxylate transporter. *J Physiol* 1999;517 (Pt 3):633-42.
- Kaiser GE. BIOL 230 WWW: UNITS OF STUDY. [Online]. 2002 May 20 [cited 2002 Sep 20]; Available from: URL:<http://www.cat.cc.rnd.us/courses/bio141/biounits.html>
- Kaname T, Miyauchi T, Kuwano A, Matsuda Y, Muramatsu T, Kajii T. Mapping basigin (BSG), a member of the immunoglobulin superfamily, to 19p13.3. *Cytogenet Cell Genet* 1993;64(3-4):195-7.
- Karp G. *Cell and molecular biology : concepts and experiments*. 2nd ed. New York: J. Wiley; 1999.
- Kasinrerk W, Fiebiger E, Stefanova I, Baumruker T, Knapp W, Stockinger H. Human leukocyte activation antigen M6, a member of the Ig superfamily, is the species homologue of rat OX-47, mouse basigin, and chicken HT7 molecule. *J Immunol* 1992;149(3):847-54.
- Kasinrerk W, Tokrasinwit N, Phunpae P. CD147 monoclonal antibodies induce homotypic cell aggregation of monocytic cell line U937 via LFA-1/ICAM-1 pathway. *Immunology* 1999;96(2):184-92.
- Khunkeawla P, Moonsom S, Staffler G, Kongtawelert P, Kasinrerk W. Engagement of CD147 molecule-induced cell aggregation through the activation of protein kinases and reorganization of the cytoskeleton. *Immunobiology* 2001;203(4):659-69.

- Kirk P, Wilson MC, Heddle C, Brown MH, Barclay AN, Halestrap AP. CD147 is tightly associated with lactate transporters MCT1 and MCT4 and facilitates their cell surface expression. *Embo J* 2000;19(15):3896-904.
- Kirsch AH, Diaz LA, Jr., Bonish B, Antony PA, Fox DA. The pattern of expression of CD147/neurothelin during human T-cell ontogeny as defined by the monoclonal antibody 8D6. *Tissue Antigens* 1997;50(2):147-52.
- Koch C, Staffler G, Huttinger R, Hilgert I, Prager E, Cerny J, et al. T cell activation-associated epitopes of CD147 in regulation of the T cell response, and their definition by antibody affinity and antigen density. *Int Immunol* 1999;11(5):777-86.
- Koeffler HP, Billing R, Lusic AJ, Sparkes R, Golde DW. An undifferentiated variant derived from the human acute myelogenous leukemia cell line (KG-1). *Blood* 1980;56(2):265-73.
- Kovacs-Nolan JA, Yoo D, Mine Y. Fine mapping of sequential neutralization epitopes on the VP8 subunit protein of human rotavirus. *Biochem J* 2003;Pt.
- Licastro F, Davis LJ, Morini MC. Lectins and superantigens: membrane interactions of these compounds with T lymphocytes affect immune responses. *Int J Biochem* 1993;25(6):845-52.
- Lipkowitz S, Greene WC, Rubin AL, Novogrodsky A, Stenzel KH. Expression of receptors for interleukin 2: Role in the commitment of T lymphocytes to proliferate. *J Immunol* 1984;132(1):31-7.
- Lodish HF. *Molecular cell biology*. 4. ed. New York: W. H. Freeman and Co.; 2000.
- Lowin B, Hahne M, Mattmann C, Tschopp J. Cytolytic T-cell cytotoxicity is mediated through perforin and Fas lytic pathways. *Nature* 1994;370(6491):650-2.
- McElwee KJ. immunology - cluster designation marker system. [Online]. [2002?] [cited 2003 June 27]; Available from:<http://www.keratin.com/am/am025.shtml>
- Medzhitov R, Janeway CA, Jr. Innate immunity: impact on the adaptive immune response. *Curr Opin Immunol* 1997;9(1):4-9.
- Miyauchi T, Kanekura T, Yamaoka A, Ozawa M, Miyazawa S, Muramatsu T. Basigin, a new, broadly distributed member of the immunoglobulin superfamily, has strong homology with both the immunoglobulin V domain and the beta-chain of major histocompatibility complex class II antigen. *J Biochem (Tokyo)* 1990;107(2):316-23.

- Miyauchi T, Masuzawa Y, Muramatsu T. The basigin group of the immunoglobulin superfamily: complete conservation of a segment in and around transmembrane domains of human and mouse basigin and chicken HT7 antigen. *J Biochem (Tokyo)* 1991;110(5):770-4.
- Mosser G, Ravanat C, Freyssinet JM, Brisson A. Sub-domain structure of lipid-bound annexin-V resolved by electron image analysis. *J Mol Biol* 1991;217(2):241-5.
- Muraoka K, Nabeshima K, Murayama T, Biswas C, Kono M. Enhanced expression of a tumor-cell-derived collagenase-stimulatory factor in urothelial carcinoma: its usefulness as a tumor marker for bladder cancers. *Int J Cancer* 1993;55(1):19-26.
- Murata T, Hemmi H, Nakajima M, Yoshida M, Yamaguchi I. Epitope mapping of gibberellin to the anti-gibberellin A(4) monoclonal antibody by saturation transfer difference NMR spectroscopy. *Biochem Biophys Res Commun* 2003;307(3):498-502.
- Nagata S. Apoptosis mediated by the Fas system. *Prog Mol Subcell Biol* 1996;16:87-103.
- Nakamura K, Koga Y, Yoshida H, Tanaka K, Sasaki M, Kimura G, et al. Inhibition of the T-cell receptor-mediated signal transduction by microinjection of anti-Lck monoclonal antibody into T-cells. *Biochim Biophys Acta* 1994;1224(3):495-505.
- Nehme CL, Fayos BE, Bartles JR. Distribution of the integral plasma membrane glycoprotein CE9 (MRC OX-47) among rat tissues and its induction by diverse stimuli of metabolic activation. *Biochem J* 1995;310 (Pt 2):693-8.
- Nurnberger T, Brunner F. Innate immunity in plants and animals: emerging parallels between the recognition of general elicitors and pathogen-associated molecular patterns. *Curr Opin Plant Biol* 2002;5(4):318-24.
- O'Donnell RT, Andersen BR. Characterization of canine neutrophil granules. *Infect Immun* 1982;38(1):351-9.
- Palucka K, Banchereau J. How dendritic cells and microbes interact to elicit or subvert protective immune responses. *Curr Opin Immunol* 2002;14(4):420-31.
- Parslow TG, Stites DP. *Medical immunology*. 10th ed. New York: Lange Medical Books/McGraw-Hill Medical Publishing Division; 2001.
- Reutelingsperger CP, Hornstra G, Hemker HC. Isolation and partial purification of a novel anticoagulant from arteries of human umbilical cord. *Eur J Biochem* 1985;151(3):625-9.
- Roitt IM. *Roitt's essential immunology*. 9. ed. Oxford: Blackwell Science; 1997.

- Schlosshauer B, Herzog KH. Neurothelin: an inducible cell surface glycoprotein of blood-brain barrier-specific endothelial cells and distinct neurons. *J Cell Biol* 1990;110(4):1261-74.
- Schuster VL, Lu R, Kanai N, Bao Y, Rosenberg S, Prie D, et al. Cloning of the rabbit homologue of mouse 'basigin' and rat 'OX-47': kidney cell type-specific expression, and regulation in collecting duct cells. *Biochim Biophys Acta* 1996;1311(1):13-9.
- Sears DW. Chapter 2B: Cluster of Differentiation (CD) Antigens. [Online]. 2002 Sep 18 [cited 2003 June 27]; Available from: URL:<http://tutor.lscf.ucsb.edu/instdev/sears/immunology/chapter02/kuby02b.htm>
- Seulberger H, Lottspeich F, Risau W. The inducible blood-brain barrier specific molecule HT7 is a novel immunoglobulin-like cell surface glycoprotein. *Embo J* 1990;9(7):2151-8.
- Smith SD, Shatsky M, Cohen PS, Warnke R, Link MP, Glader BE. Monoclonal antibody and enzymatic profiles of human malignant T-lymphoid cells and derived cell lines. *Cancer Res* 1984;44(12 Pt 1):5657-60.
- Song WC, Sarrias MR, Lambris JD. Complement and innate immunity. *Immunopharmacology* 2000;49(1-2):187-98.
- Spring FA, Holmes CH, Simpson KL, Mawby WJ, Mattes MJ, Okubo Y, et al. The Oka blood group antigen is a marker for the M6 leukocyte activation antigen, the human homolog of OX-47 antigen, basigin and neurothelin, an immunoglobulin superfamily molecule that is widely expressed in human cells and tissues. *Eur J Immunol* 1997;27(4):891-7.
- Staffler G, Stockinger H. Cd147. *J Biol Regul Homeost Agents* 2000;14(4):327-30.
- Stingl G, Steiner G. Immunological host defense of the skin. *Curr Probl Dermatol* 1989;18:22-30.
- Stockinger H, Ebel T, Hansmann C, Koch C, Majdic O, Prager E, et al. CD147 (neurothelin/basigin) Workshop Panel Report. In: Kishimoto T, Kikutani H, A.E.G.Kr.v.d. Borne et al, editors. *Leukocyte typing VI*. New York: Garland Publishing; 1997. p. 760.
- Streilein JW. Skin-associated lymphoid tissues (SALT): origins and functions. *J Invest Dermatol* 1983;80 Suppl:12s-16s.
- Sundstrom C, Nilsson K. Establishment and characterization of a human histiocytic lymphoma cell line (U-937). *Int J Cancer* 1976;17(5):565-77.

Teixeira MM, Almeida IC, Gazzinelli RT. Introduction: innate recognition of bacteria and protozoan parasites. *Microbes Infect* 2002;4(9):883-6.

Tuckwell DS, Smith L, Korda M, Askari JA, Santoso S, Barnes MJ, et al. Monoclonal antibodies identify residues 199-216 of the integrin alpha2 vWFA domain as a functionally important region within alpha2beta1. *Biochem J* 2000;350 Pt 2:485-93.

van Heerde WL, Robert-Offerman S, Dumont E, Hofstra L, Doevendans PA, Smits JF, et al. Markers of apoptosis in cardiovascular tissues: focus on Annexin V. *Cardiovasc Res* 2000;45(3):549-59.

Wikipedia. Integral membrane protein – Wikipedia. [Online]. 2003 May 9 [cited 2003 June 27]; Available from: URL:http://www.wikipedia.org/wiki/Integral_membrane_protein



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved