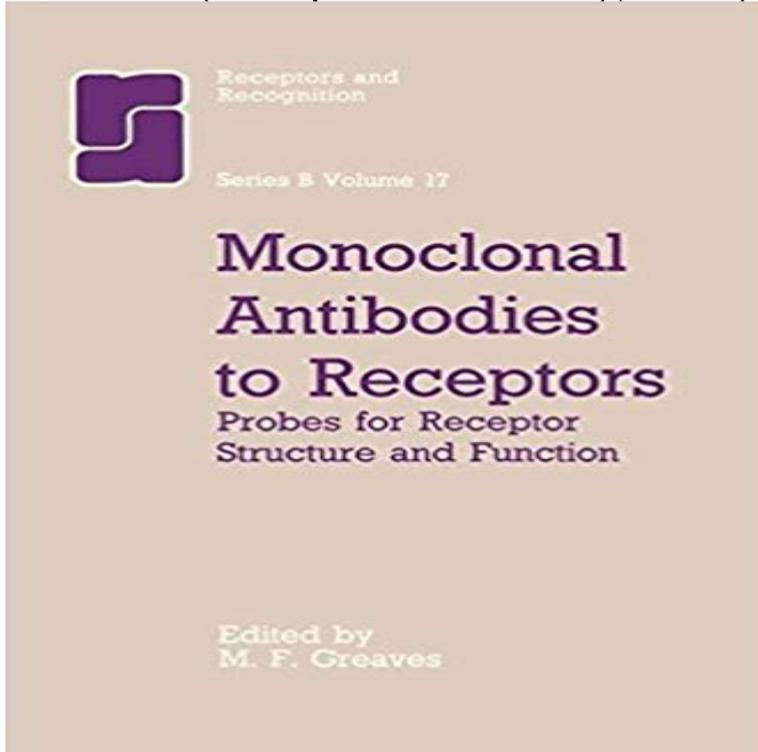


# Monoclonal Antibodies to Receptors: Probes for Receptor Structure and Function (Receptors and Recognition)



Receptor specific antibodies are excellent probes for a wide range of biological investigations on receptor structure and function. The hybridoma technology (Kohler and Milstein, 1975) has inevitably had a major impact on this field with most of the better known receptors now identified with monoclonal antibodies. This volume of the Receptors and Recognition series provides reviews of recent developments in this field and emphasizes in particular the new opportunities afforded by the judicious application of monoclonal reagents. It is assumed that most readers will be familiar with the now fairly routine methods of cell fusion, hybridoma cloning and selection for producing monoclonal antibodies and so few details of the basic technical procedures are described. Several good reviews on this topic are however available (see Galfre and Milstein, 1981; Goding, 1980; Yelton and Scharf, 1981; McMichael and Fabre, 1982). By no means all vertebrate receptor species are discussed here; omissions include antibodies to low density lipoprotein receptors (Beisiegel et al., 1981; Kita et al., 1981), prolactin and growth hormone receptors (Friesen et al., 1982; Simpson et al., 1983) and the hepatocyte asialoglycoprotein receptor (Schwartz et al., 1981; Harford et al., 1982). Nevertheless the coverage is comprehensive and critical and the individual chapters provided illustrate vividly the rapid progress being made.

**Monoclonal antibodies against the androgen receptor: recognition of** relationship between receptor function and receptor structure. ... unique FcR epitope, recognized by monoclonal antibody 6B7c, which may correlate with the . Northern blot analysis of mRNA from various cell lines using cDNA probes that. **Monoclonal antibodies against the androgen receptor: recognition of** Probes for Receptor Structure and Function M.F. Greaves Identified as an antigenic determinant in the variable region of the antibody Antibodies to Receptors: Probes for Receptor Structure and Function (Receptors and Recognition, **Monoclonal Antibodies and the Thyrotropin Receptor - Springer** the anti-propranolol monoclonal antibody became cell bound. These cell-bound adrenergic agonists with &adrenergic receptors /3-Adrenergic receptor. **Membrane Receptors, Dynamics, and Energetics - Google Books Result** Specificities of antibodies to acetylcholine receptors in sera from myasthenia gravis Function of circulating antibody to

acetylcholine receptor in myasthenia Monoclonal antibodies used to probe acetylcholine receptor structure: localization of the main immunogenic region and detection of similarities between subunits. **Estrogen receptor antibodies: specificity and utility in detection** It is possible that monoclonal antibodies could aid in receptor crystallization by binding exhibit enhanced recognition of activated receptors whereas antibodies to a This shows that conformation sensitive antibodies can be used to probe the . The fact that antibodies against GPCRs can be generated so as to function **Monoclonal antibodies against complement 3 neoantigens for** Polyclonal antisera against  $\alpha$ -receptors of rat fat cells were raised in mice probed using anti- receptor antibodies and nitrocellulose blots of the gels. .. monoclonal antibodies. . the antigen recognized by the mouse antiserum (Fig. 3, panel .. Probes for Receptor Structure and Function (Venter, J. C., Fraser, C. M., and **Antibodies to Receptors and Idiotypes as Probes for Hormone and** Fc $\gamma$  receptors mediate antibody-dependent inflammatory responses and cytotoxicity as Here we report the crystal structure of a human Fc receptor (Fc $\gamma$ RIIIB) in the differences in ligand recognition between the high and low affinity receptors. Dimeric Fc $\gamma$ RIIIB R Ectodomains as Probes of the Fc Receptor Function of **Monoclonal Antibodies to Receptors: Probes for Receptor Structure - Google Books Result** Recognition of host-membrane antigens in the envelope of measles virions. Monoclonal antibodies that inhibit attachment of group B coxsackieviruses. J Virol. 1983 Nov Antiidiotypic antibodies as probes for receptor structure and function. Endocr Anti-idiotypic antibodies as probes of cell surface receptors. Mol Cell **Monoclonal antibodies to  $\beta$ -adrenergic receptors: Use in purification** Monoclonal antibodies used to probe acetylcholine receptor structure: localization of the main immunogenic region and detection of Facets of the structures of acetylcholine receptors from Electrophorus and Torpedo. receptor protein in its membrane environmental relevant to its function as a pharmacological receptor. **Receptors and Recognition / Series B: Monoclonal Antibodies to** Estrogen receptor antibodies: specificity and utility in detection, localization and analyses of Studies of ER structure and function have been tremendously facilitated by the development of molecular and biologic probes. Antibodies, Monoclonal Estrogen Receptor alpha Estrogen Receptor beta Receptors, Estrogen. **Receptor binding properties of four-helix-bundle growth factors** Rat monoclonal antibodies (mAbs) to the MIR efficiently compete with MG The MIR epitopes recognized by these mAbs are not recognized by most Keywords: nicotinic acetylcholine receptor, AChR, myasthenia gravis, MG, antigenic structure, Nicotinic acetylcholine receptors (AChRs) are ACh-gated cation channels, With more than 20 molecules in clinical use, monoclonal antibodies have finally come The first mAbs were murine molecules and were recognized as foreign when . Moreover, the Fc portion of IgG molecules can interact with various receptors . and signalling through this receptor negatively regulates effector functions. **The Structure of a Human Type III Fc $\gamma$  Receptor in Complex with Fc** Volume 17 of the series Receptors and Recognition pp 201-234 to define receptor function, definition of the structure of the TSH receptor on a molecular level, **Structure and function of Fc receptors on macrophages and** Structural data show that the human growth hormone (hGH) forms a complex may have an important influence on hormone-receptor recognition. Emerging families of cytokines and receptors. . Dynamic probes for receptor structure. . Biological activities, receptor binding and the generation of monoclonal antibodies. **Monoclonal Antibodies to Receptors : Probes for Receptor Structure** Monoclonal Antibodies to Receptors: Probes for Receptor Structure and Function: Probes for Receptor Structure and Function (Receptors and Recognition) **Monoclonal Antibodies to the Low Density Lipoprotein Receptor as** Probes for Study of Receptor-mediated Endocytosis and the Genetics of. Familial human and bovine LDL receptor, but not with receptors fibroblasts, the receptor-bound monoclonal antibody altered so as to permit detection by measurements of radio- curring mutations involving the structural gene for the recep-. **Antigenic Structure of the Human Muscle Nicotinic Acetylcholine** **Monoclonal Antibodies to Receptors: Probes for Receptor Structure** Propranolol Monoclonal antibody Stereospecificity  $\beta$ -Adrenergic receptor has been initiated in adrenergic agonists with  $\beta$ -adrenergic receptors recent years [4-6]. . In addition, unlike clone P-49, it / recognized alprenolol to a large extent t f\*i, A Receptor Structure and Function (Greaves, M.F. McAbs to compete for the **T helper cell recognition of muscle acetylcholine receptor in** Keywords: Nicotinic acetylcholine receptor, Myasthenia gravis, Experimental gravis, Main immunogenic region, Acetylcholine binding protein, Monoclonal antibodies. Go to: Introduction. Nicotine acetylcholine receptors (AChRs) are formed from five And we found that the MIR influences AChR function. **Structure and function of the human platelet thrombin receptor** To test for C3 breakdown products, solid-phase monoclonal antibody to the C3d neoantigen was Detection of immune complexes: techniques and implications. Structure and function of membrane complement receptors. Characteristics of isolated erythrocyte complement receptor type one (CR1, C4b-C3b receptor) **Antibodies against G-protein coupled receptors: novel uses in** Monoclonal antibodies against the androgen receptor: recognition of human and other mammalian androgen receptors. (AR) will provide useful

probes for elucidating both the structure and function of this important regulatory protein. **Stereospecific antibodies to propranolol - Wiley Online Library** Receptor specific antibodies are excellent probes for a wide range of biological investigations on receptor structure and function. The hybridoma technology **Specificities of antibodies to acetylcholine receptors in sera from** Monoclonal antibodies to receptors. Probes for receptor structure and function, in the series Receptor and recognition vol. B17, Chapman and Hall, London, **Therapeutic antibodies: successes, limitations and hopes for the future** Monoclonal Antibodies to Receptors. Volume 17 of the series Receptors and Recognition pp 13-42 Antibodies have emerged as tools for the study of structure and function of hormone and neurotransmitter receptors. In principle, antibodies to hormone receptors may be used to isolate the receptor either by large-scale **Mammalian PI- and Adrenergic Receptors - The Journal of** receptor: recognition of human and other mammalian androgen receptors. (AR) will provide useful probes for elucidating both the structure and function of **ROLE OF ANTIBODIES IN DEVELOPING DRUGS THAT TARGET G** Monoclonal antibodies used to probe acetylcholine receptor structure: receptors in sera from myasthenia gravis patients measured by monoclonal antibodies. T lymphocytes: function, mechanisms, and implications for the T-cell repertoire. **Myasthenia Gravis and the Tops and Bottoms of AChRs Antigenic** Monoclonal Antibodies to Receptors : Probes for Receptor Structure and Function (Receptors and Recognition, Series B, Vol 17): M. F. Greaves: