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(54) Title: MONOCLONAL ANTIBODY REAGENTS

(57) Abstract: Methods for purifying monoclonal antibody reagents having increased sensitivity or increased specificity for use in immunoassays for a particular analyte and assays using such antibody reagents. The monoclonal antibody reagents are prepared by serial elution of the monoclonal antibody purification lots at different pHs.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/20153

A. CLASSIFICATION OF SUBJECT MATTER
IPC: C12P 21/08(2006.01);G01N 33/531(2006.01),33/537(2006.01),33/543(2006.01),33/561(2006.01),33/577(2006.01)
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USPC: 435/7.1,7.92,7.93,7.94,21;436/516,518,548;530/388.2,391.1,412,413
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 435/7.1, 7.92, 7.93, 7.94, 21; 436/516, 518, 548; 530/388.2, 391.1, 412, 413;
 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EAST, DIALOG

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	HAMILTON et al. Quality Control of Murine Monoclonal Antibodies Using Isoelectric Focusing Affinity Immunoblot Analysis. Hybridoma. 1987, Vol. 6, No. 2, pages 205-217, see entire document.	1- 5,8,9,11,12,16,17,19,20 ,22 ----- 1-27
X	WENISCH et al. Shifts of Isoelectric Points Between Cellular and Secreted Antibodies as Revealed by Isoelectric Focusing and Immobilized pH Gradients. Electrophoresis. 1990, Vol. 11, pages 966-969, see entire document.	11-13,16,17,19,20,22
Y	UETTWILLER-GEIGER et al. Multicenter Evaluation of an Automated Assay for Troponin I. Clinical Chemistry. 2002, Vol. 48, No. 6, pages 869-876, see entire document.	1-27
A	EY et al. Isolation of Pure IgG1, IgG2a and IgG2b Immunoglobulins from Mouse Serum using Protein A-Sepharose. Immunochemistry. 1978, Vol. 15, pages 429-436	1-27

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized Officer <i>James L. Grun</i> JAMES L. GRUN Telephone No. 571-272-1600

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NAKAMURA et al. Immune Response to a Hapten of Fluorescein Isothiocyanate in a Single Mouse Analyzed by Two-Dimensional Affinity Electrophoresis. Electrophoresis. 1993, Vol. 14, pages 81-87.	1-27
A	COMPTON et al. Micro Isoelectric Point Heterogeneity of a Murine Monoclonal Antibody (L6) Originating from Cell Culture Conditions. Biotechnology Techniques. 1989, Vol. 3, No. 5, pages 349-354.	1-27
A	PATEL et al. Different Culture Methods Lead to Differences in Glycosylation of a Murine IgG Monoclonal Antibody. Biochemical Journal. 1992, Vol. 285, pages 839-845.	1-27