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[54] **MONOCLONAL ANTIBODIES DIRECTED TO THE HER2 RECEPTOR**

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Related U.S. Application Data

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[51] **Int. Cl.**^{6} **C07K 16/00**; G01N 33/574

[52] **U.S. Cl.** **435/240.27**; 530/388.8; 530/388.85; 530/387.7; 435/7.23; 435/172.2

[58] **Field of Search** 530/387.7, 388.8, 530/388.85, 381.1; 435/7.23, 240.27, 172.2, 70.21

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[57] **ABSTRACT**

Monoclonal antibodies which bind to the extracellular domain of the HER2 receptor and inhibit growth of SK-BR-3 breast tumor cells, which overexpress HER2, are disclosed. The monoclonal antibodies can be used for in vitro assays for detecting a tumor characterized by amplified expression of HER2.

39 Claims, 6 Drawing Sheets

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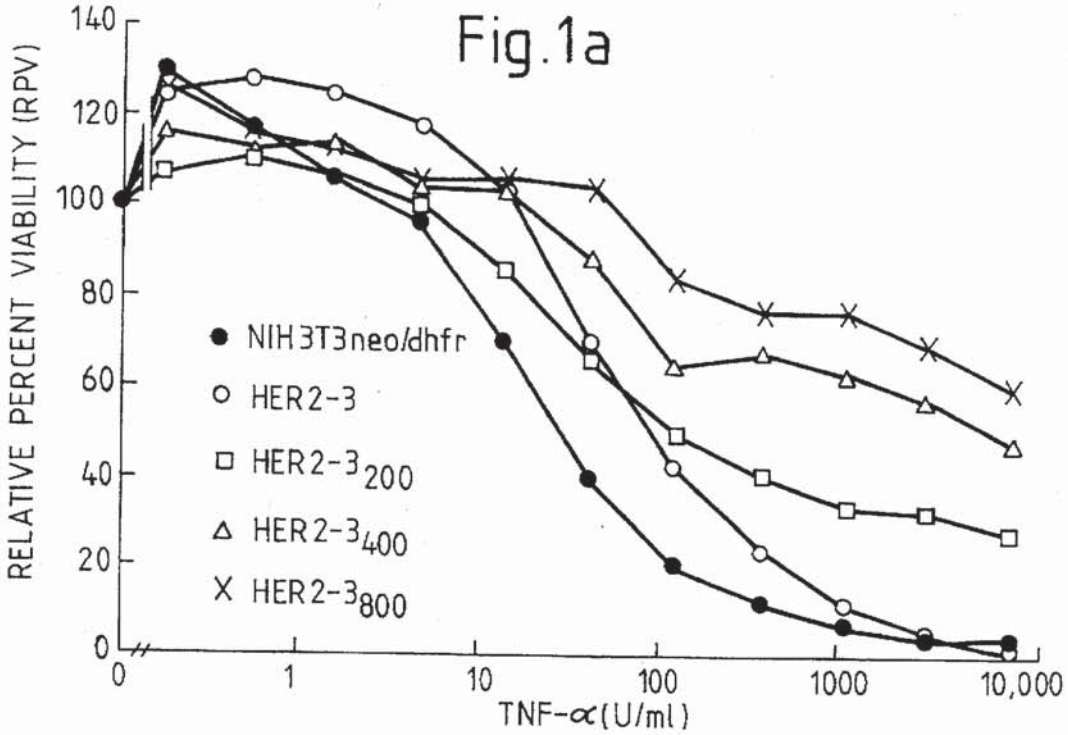

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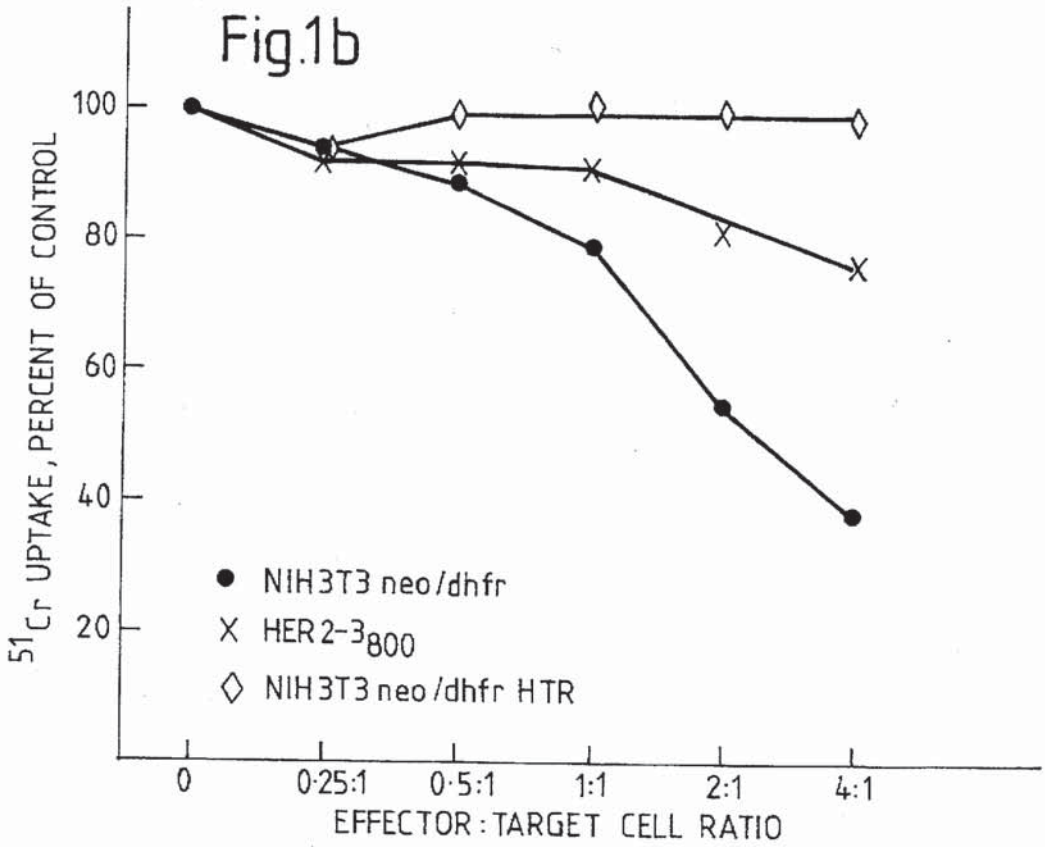

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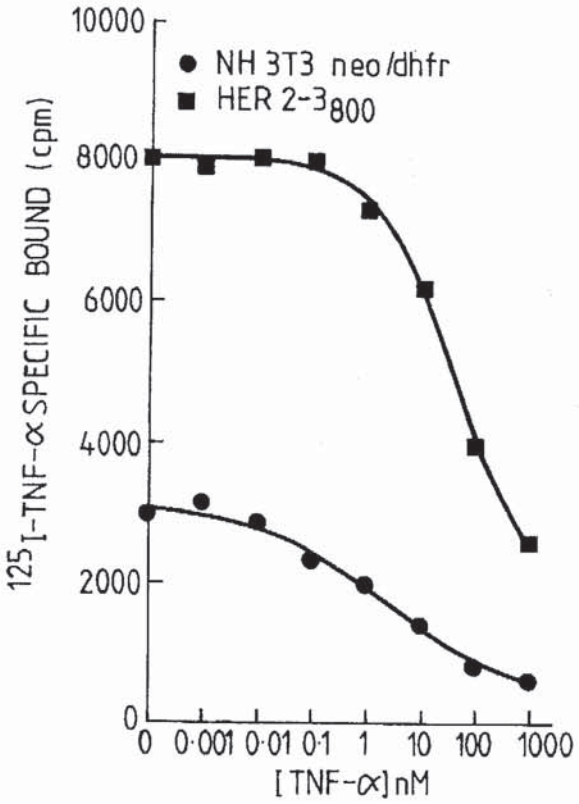

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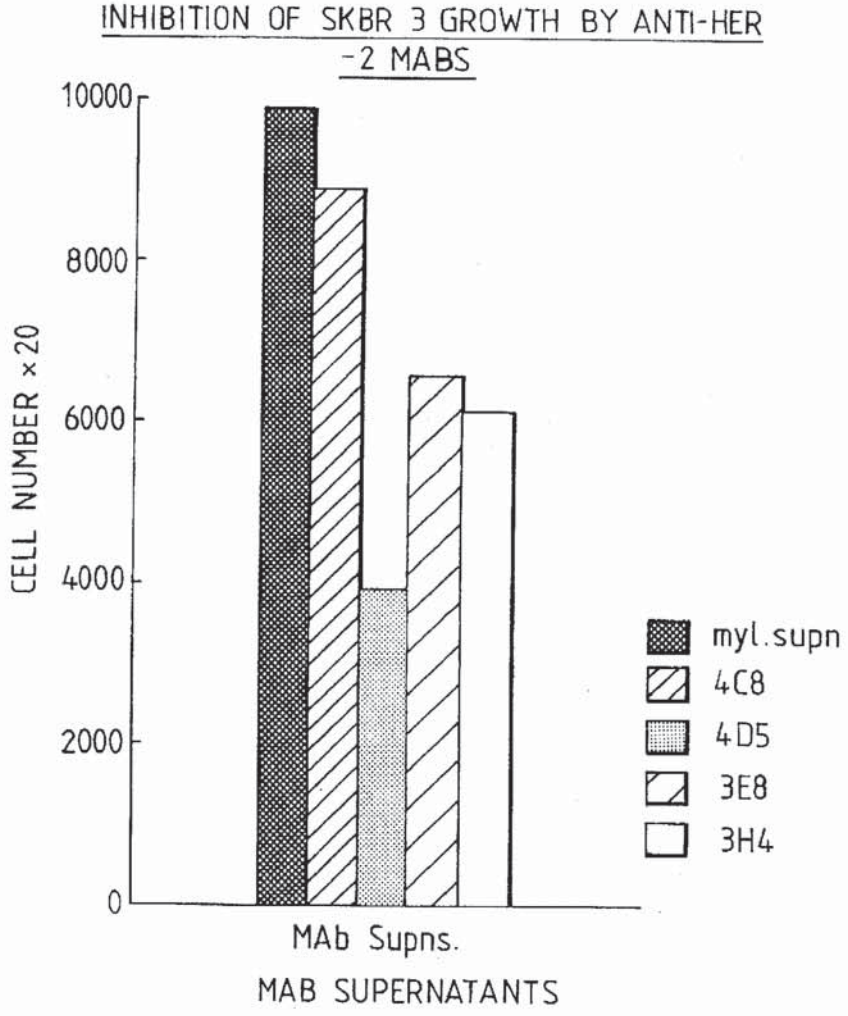

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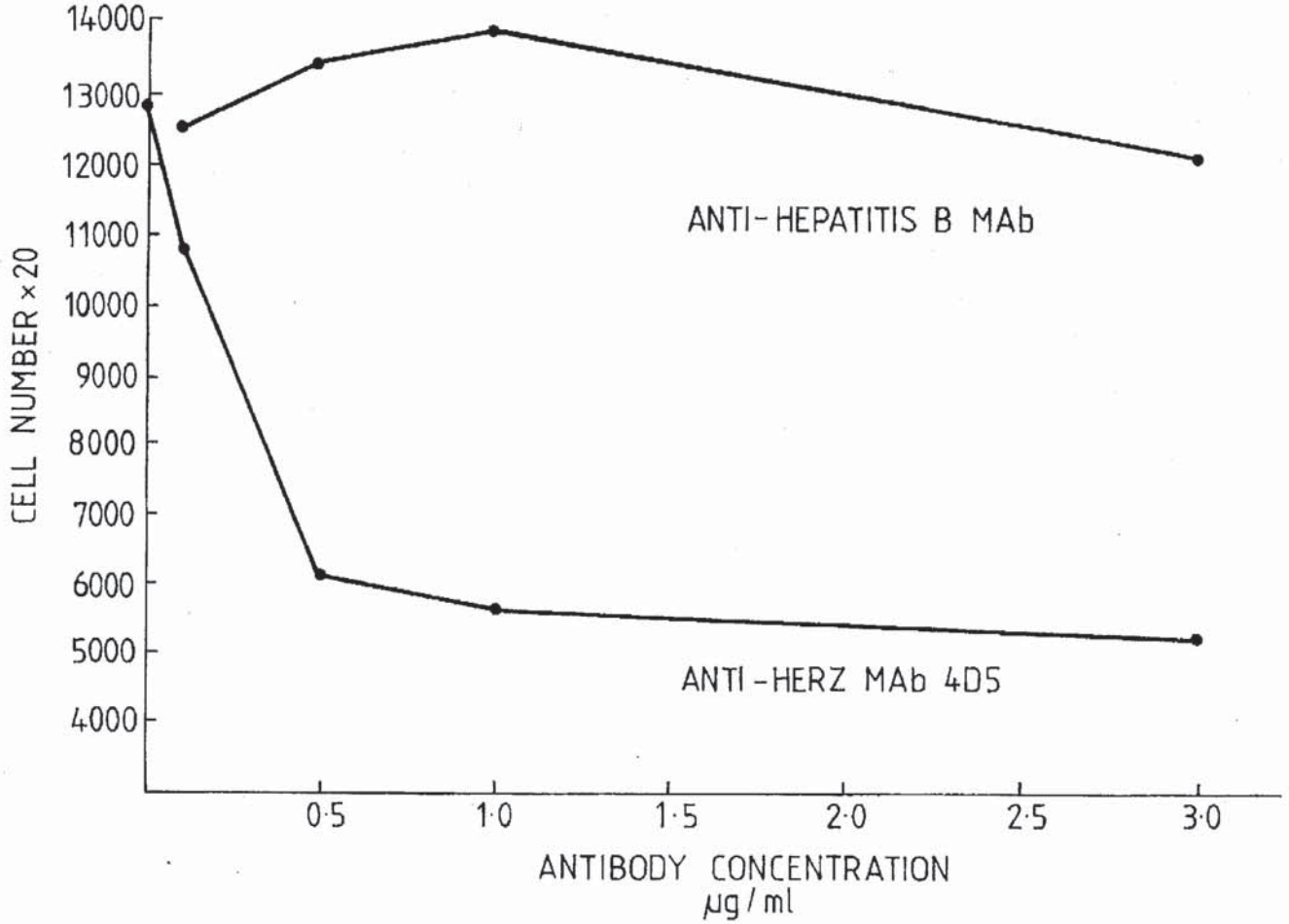
Fig. 4



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