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(54) Title: MONOCLONAL ANTIBODIES AGAINST PROSTATE SPECIFIC MEMBRANE ANTIGEN (PSMA) LACKING IN FUCOSYL RESIDUES

(57) Abstract: The invention pertains to anti-PSMA antibodies that lack fucosyl residues. The antibodies of the invention exhibit increased antibody-dependent cellular cytotoxicity (ADCC) activity as compared to the fucosylated form of the antibodies. The invention also provides host cells that express the anti-PSMA antibodies that lack fucosyl residues, wherein the host cells are deficient for a fucosyl transferase. Methods of using the antibodies to inhibit the growth of PSMA+ cells, such as tumor cells, are also provided.

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