

ABSTRACT

5 This invention concerns a subset of composite
Hum4 V_L, V_H TAG antibody with high affinities to a high
molecular weight, tumor-associated sialylated
glycoprotein antigen (TAG-72) of human origin. These
antibodies have variable regions with (1) V_L segments
derived from the human subgroup IV germline gene and (2)
a V_H segment which is capable of combining with the V_L
to form a three dimensional structure having the ability
10 to bind TAG-72. *In vivo* methods of treatment and
diagnostic assay using these composite antibodies is
also disclosed.

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