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(54) **Title**: ANTI-MESOTHELIN IMMUNOCONJUGATES AND USES THEREFOR

(57) **Abstract**: The present invention provides immunoconjugates composed of antibodies, e.g., monoclonal antibodies, or antibody fragments that bind to mesothelin, that are conjugated to cytotoxic agents, e.g., maytansine, or derivatives thereof, and/or co-administered or formulated with one or more additional anti-cancer agents. The immunoconjugates of the invention can be used in the methods of the invention to treat and/or diagnose and/or monitor cancers, e.g. solid tumors. The immunoconjugates comprise antibodies and functional fragments containing such antigen-binding regions that are specific for the membrane-anchored, 40 kDa mesothelin polypeptide, which which is overexpressed in several tumors, such as pancreatic and ovarian tumors, mesothelioma and lung cancer cells.