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[Continued on next page]

(54) Title: ANTI-DEsupR INHIBITORS AS THERAPEUTICS FOR INHIBITION OF PATHOLOGICAL ANGIOGENESIS AND TUMOR CELL INVASIVENESS AND FOR MOLECULAR IMAGING AND TARGETED DELIVERY

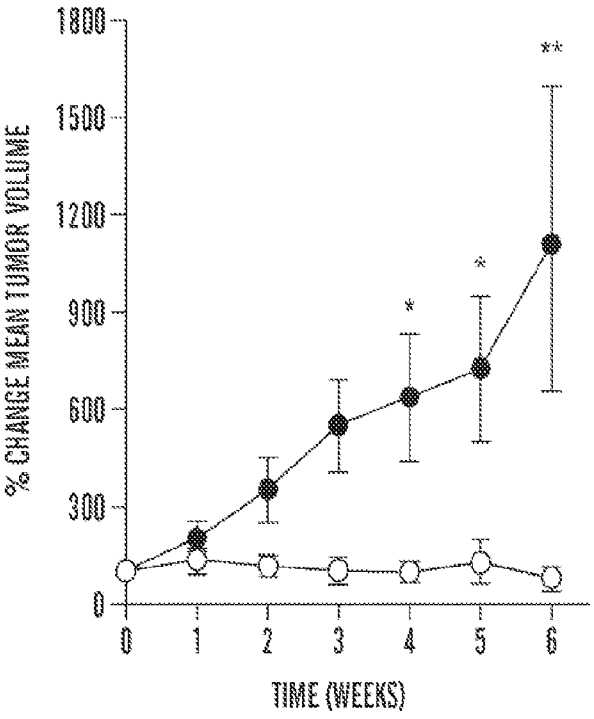


FIG. 7

(57) Abstract: Provided herein are novel compositions comprising anti-DEspR antibodies and fragments thereof, including fully human, composite engineered human, humanized, monoclonal, and polyclonal anto-DEspR antibodies and fragments thereof, and methods of their use in a variety of therapeutic applications. The compositions comprising the anti-DEspR antibodies and fragments thereof described herein are useful in diagnostic and imaging methods, such as DEspR-targeted molecular imaging of angiogenesis, and for companion diagnostic and/or in vivo-non invasive imaging and/or assessments.

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