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(71) Applicant *(for all designated States except US)*: **WYETH** [US/US]; Five Giralda Farms, Madison, New Jersey 07940 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LAVALLIE, Edward, Roland** [US/US]; 113 Ann Lee Road, Harvard, Massachusetts 01451 (US). **COLLINS-RACIE, Lisa Anne** [US/US]; 124 School Street, Acton, Massachusetts 01720 (US). **CORCORAN, Christopher, John** [US/US]; 170 Broadway, Apt. 3, Arlington, Massachusetts 02474 (US). **TCHISTIAKOVA, Lioudmila, Gennadievna** [CA/US]; 19 Abbot Bridge Drive, Andover, Massachusetts 01810 (US). **NOWAK, John, Adam** [US/US]; 11 William Circle, Stratham, New Hampshire 03885 (US). **KARIM, Riyez** [CA/US]; 21 Royal Crest Drive, Apt. 7, North Andover, Massachusetts 01845 (US). **TAN, Xiang-Yang** [US/US]; 811 Gazebo Circle, Reading, Massachusetts 01867 (US). **MARQUETTE, Kimberly, Ann** [US/US]; 66 Springfield Street, Unit 1, Somerville, Massachusetts 02143 (US). **VELDMAN, Geertruida, Machteld** [US/US]; 60 Woodmere Drive, Sudbury, Massachusetts 01776 (US).

(74) Agent: **SULLIVAN, Kelly, M.**; Wyeth, Patent Law Department, Five Giralda Farms, Madison, New Jersey 07940 (US).

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(54) Title: ANTIBODIES TO GDF8 AS USES THEREOF

(57) Abstract: The disclosure provides novel molecules related to growth and differentiation factor 8 (GDF8), in particular epitopes specific to GDF8 and other specific antagonists of GDF8 in particular anti GDF8 antibodies or antigen binding protein or fragment thereof that may inhibit GDF8 activity and signal in vitro and/or in vivo. The disclosure also provides for an immunoassay used to detect and quantitate GDF8. The disclosure also provides methods for diagnosing, preventing, ameliorating, and treating GDF8 associated disorders, e.g., degenerative orders of muscle, bone, and insulin metabolism. Finally, the disclosure provides pharmaceuticals for the treatment of such disorders by using the antibodies, polypeptides, polynucleotides, and vectors of the invention.

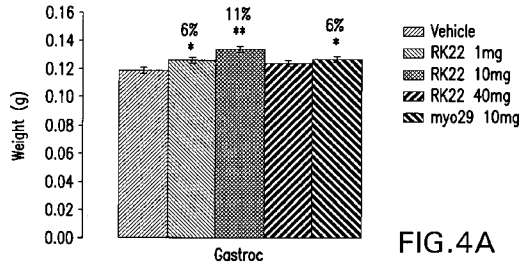


FIG.4A

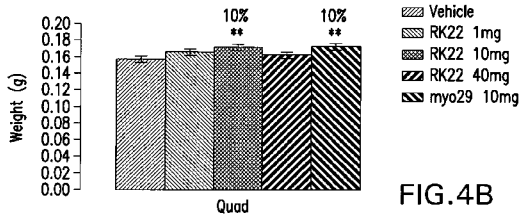


FIG.4B

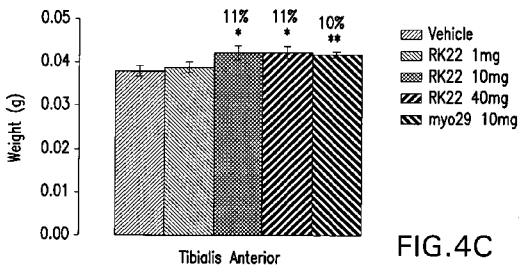


FIG.4C

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