Abstract

The invention is directed to an isolated antibody that binds to a TREM2 protein, wherein the isolated antibody induces or inhibits one or more TREM2 activities, and wherein the isolated antibody promotes or decreases survival of one or more innate immune cells. Also disclosed are methods of using said isolated antibody to prevent, reduce risk, or treat dementia, frontotemporal dementia, Alzheimer's disease, Nasu-Hakola disease, or multiple sclerosis.