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(54) **Title:** IMPROVED PROTOFIBRIL SELECTIVE ANTIBODIES AND THE USE THEREOF

(57) **Abstract:** The present invention pertains to the prevention, treatment and diagnosis of neurodegenerative diseases, in particular Alzheimer's disease, and other similar disease. More specifically to high affinity antibodies selective for amyloid beta protein (Aβ) in its protofibril conformation and of IgG class and IgGl or IgG4 subclass or combinations thereof or mutations thereof, retaining high Fc receptor binding and low Cl(CIq) binding, effective in clearance of Aβ protofibrils and with reduce risk of inflammation.

WO 2007/108756 A1