Antibodies Against Prion Proteins for Treatment of Alzheimer’s Disease

**OCR Number:** OCR 4677

**Description:**

- **Background:** Cellular prion protein PrPC acts as a high affinity receptor for Aβ-oligomers and is required for Aβ-oligomer-induced synaptic dysfunction in vitro and in vivo. Signal transduction downstream of Aβo/PrPC involves mGluR5, Fyn and Pyk2.

- In an AD Tg mouse model an infusion of the anti-PrPC mAb 6D11 produces a significant behavioral rescue in the setting of advanced disease, even with a relatively short treatment regiment (Fig.1).

- The proposed mechanism of action is blocking of the binding between Aβ oligomers and PrPC, resulting in an amelioration of synaptic loss (Fig.2).

- **Indications:** Alzheimer’s Disease; other neurodegenerative disorders.

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**Publications:**


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