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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Amyloid beta A4 protein [LY2062430 (Solanezumab, hu266)] Bulk Size Ab04185-3.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2b Fc Silent™ antibody, based on the original mouse IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2b, Fc Silent™, Kappa
Clone Number: LY2062430 (Solanezumab, hu266)
Alternative Name(s) of Target: APP; Aβ peptide; Abeta; A-beta; Aβ; Aβ42; amyloid beta peptide; Alzheimer disease amyloid protein; Beta-amyloid precursor protein; Protease nexin-II; humanized m266.2
UniProt Accession Number of Target Protein: P05067
Published Application(s): therapeutic, ELISA
Published Species Reactivity: Human
Immunogen: The parental mouse antibody 266 was generated by immunization of mice with a peptide composed of residues 13-28 of human Aβ peptide. The original humanized version of the antibody was generated by grafting CDRs of the mouse antibody onto human framework regions.
Specificity: This antibody recognizes amino acids 13-28 of amyloid beta and only recognized soluble form of the amyloid beta peptide. It functions as a cell surface receptor and performs physiological functions on the surface of neurons relevant to neurite growth, neuronal adhesion and axonogenesis. Interaction between APP molecules on neighboring cells promotes synaptogenesis.
Application Notes: The human IgG1 version of this antibody binds amyloid beta peptide Aβ1-42 with a binding affinity of Kd= 4pM in an in vitro BIAcore assay. The binding characterization of this antibody towards Aβ1-42-BSA conjugate was done using ELISA (US8591894). A study in patients with Alzheimer's disease (AD) suggested that a single dose of solanezumab was generally well tolerated, except that mild self-limited symptoms consistent with infusion reactions occurred in few patients when higher doses are given. A dose-dependent change in plasma and CSF Abeta was also observed (PMID: 20375655). The original mouse antibody 266 slowed Aβ accumulation in the brain but failed to deplete Aβ plaques in animal studies (PMID: 11438712). This humanized antibody is likely to have impeded the efflux of soluble Aβ from the brain in patients owing to the formation of Aβ–antibody complexes in the brain interstitial fluid and cerebrospinal fluid, as suggested from animal studies (PMID: 24638135). Phase 1 and 2 studies of

solanezumab revealed evidence of target engagement by dose-dependent increases in plasma and CSF total Aβ (PMID: 20375655; 22672770). In the phase 2 study of mild to moderate AD, 12 weeks of solanezumab treatment yielded a dose-dependent increase in CSF-free Aβ42, suggesting a shift in equilibria sufficient to mobilize Aβ42 from plaques (PMID: 22672770). In the first phase III studies, solanezumab did not demonstrate significant benefit for the primary outcomes in either study but showed a favorable safety profile (PMID: 26238576).

Antibody First Published in: Siemers et al. Safety and changes in plasma and cerebrospinal fluid amyloid beta after a single administration of an amyloid beta monoclonal antibody in subjects with Alzheimer disease. Clin Neuropharmacol. 2010 Mar-Apr;33(2):67-73. PMID:20375655

Note on publication: This study evaluates the safety and tolerance of solanezumab after single administration in patients with Alzheimer's disease.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.