

DATASHEET

Human Beta Amyloid 1-42 antibody pair (ARA834/ARA954)

CAT. NO. ARA6878

KEY FEATURES

Target	pTau181	Source / Host	Rabbit/Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	Sandwich ELISA	Storage	-20°C

BACKGROUND

The Aβ1-42 peptide is a 42-amino acid fragment cleaved from the amyloid precursor protein (APP) by secretase enzymes. It is the longer and more amyloidogenic form of the Aβ peptide, compared to the more common Aβ1-40 form. Aβ1-42 has a greater tendency to aggregate and form amyloid fibrils and plaques in the brain, which is a hallmark pathological feature of Alzheimer's disease. Increased production and accumulation of Aβ1-42 relative to Aβ1-40 is associated with genetic mutations, certain ApoE alleles, and other as-yet undiscovered factors that increase the risk of Alzheimer's disease. Measurement of the Aβ1-42 peptide in cerebrospinal fluid (CSF) is used as a biomarker for Alzheimer's disease, as decreased CSF Aβ1-42 levels indicate increased brain deposition of the peptide. The Aβ1-42/Aβ1-40 ratio in CSF is considered a more sensitive and specific marker of Alzheimer's pathology than Aβ1-42 alone.

APPLICATION

The Beta Amyloid 1-40 Matched Antibody Pair is expertly designed for immunoassay technologies and high-throughput ELISA platforms that require specifically labeled antibody pairs. These pairs can be customized with a variety of labels such as fluorophores, biotin, and beads. Compatible technologies include MSD, Luminex, Quanterix Simoa, Alpha Technology etc.

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Antibody Pair Specificity	Beta Amyloid 1-42
Species Reactivity	Human
Protein Standard	Human beta Amyloid 1-42 polypeptide
Target Antigen	Protein name: amyloid beta precursor protein; Gene name: APP; UniProt Accession: P05067; Organism: Homo sapiens (Human)
Cross Reactivity	Not Tested

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

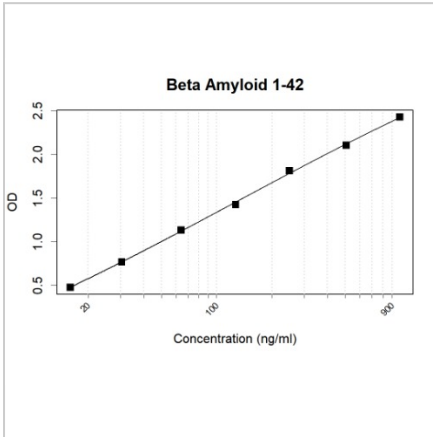
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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Sandwich ELISAMicrotiter wells were coated with ARA6655 at 3 µg/mL as the capture antibody. Recombinant Beta Amyloid 1-42 protein was used as the antigen. 1 µg/mL Beta Amyloid Antibody ARA6798 was used as the detection antibody.

STORAGE

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com