Rabbit (polyclonal)
Anti-Aβ43
Unconjugated

PRODUCT ANALYSIS SHEET

**Catalog Number:** 44-340

**Lot Number:** See product label

**Quantity/Concentration:** See product label

**Form of Antibody:** Rabbit polyclonal immunoglobulins in phosphate buffer, pH 7.4. Carrier and preservative free.

**Purification:** Purified from rabbit serum by epitope-specific affinity chromatography. Any reactivity towards both full length Aβ40 (β-amyloid 1-40) and Aβ42 (β-amyloid 1-42) peptide has been eliminated through a series of preabsorption steps.

**Specificity:**
Alzheimer’s Disease (AD) is characterized by the presence of extracellular plaques and intracellular neurofibrillary tangles (NFTs) in the brain. The major component of these plaques is Aβ peptide (β-amyloid), a 40 to 43 amino acid peptide cleaved from amyloid precursor protein (APP). Increased release of the ‘longer forms’ of Aβ peptide, Aβ42 or Aβ43, which have a greater tendency to aggregate than Aβ40, occurs in individuals expressing certain genetic mutations, expressing certain ApoE alleles, or may involve other, still undiscovered, factors. Many researchers theorize that this increased release of Aβ42/Aβ43 leads to the abnormal deposition of Aβ and the associated neurotoxicity in the brains of affected individuals.

**Applications:** The antibody has been used to detect Aβ43 in dot blots, RIA, ELISA and other related assays.

**Suggested Working Dilutions:** For dot blot applications, we recommend using the antibody at 0.05-1.0 μg/mL. The optimal antibody concentration should be determined for each specific application.

**Storage:** Store at –80°C. Upon initial thawing, apportion into working aliquots and store at –80°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.

**Expiration Date:** Expires one year from date of receipt when stored as instructed.

**Cross-Reactivity:** No significant cross-reactivity of Aβ40 or Aβ42 has been observed.

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*This product is for research use only. Not for use in diagnostic procedures.*

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