App

Mouse Anti-Mouse Amyloid beta A4 precursor protein (CT) Clone 252Q6 mAb

Catalog No.	CSI14584	**Quantity:**	100 µg

Alternate Names: AL024401, Abeta, Adap, Cvap, E030013M08Rik, appican, betaAPP, protease nexin II

Description: Aβ (252Q6) UNCONJ. MS X MS; Unconjugated Monoclonal antibody specific to Mouse, Rat Aβ. This antibody is validated for use in Western Blot, Immunoassay (ELISA). Anti-Aβ recognizes the expressed product of the App gene.

Quantity/Volume: 100 µg/0.2 mL

Gene ID: 11820

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

Recommended Positive Controls: Aβ peptide, rat homolog

Immunogen: A chemically synthesized peptide derived from amino acid residues 1-20 of mouse Aβ. This region is conserved in rat Aβ.

Isotype: IgG_1 κ (mouse)

Clone: 252Q6

Formulation: Purified immunoglobulin in phosphate buffered saline, pH 7.2, with 0.1% bovine serum albumin. Preservative: 0.1% sodium azide. **Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.**

Purification: Purified from ascites by affinity chromatography.

Cross-Reactivity: Mouse and rat. Low reactivity with human. Other species were not tested.

Applications: This antibody is suitable for use in ELISA and Western blotting.

Application Notes: For use as a capture antibody in sandwich ELISA, we recommend a concentration of 5 µg/mL. In Western blotting, a concentration range of 0.1-1.0 µg/mL is recommended. The optimal antibody concentration should be determined for each specific application.

Storage & Stability: Store at 2-8ºC. For long term storage, aliquot into small volumes and store at –20ºC. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.

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Figure 1.
This monoclonal antibody (252Q6) was coated onto the wells of a 96 well plate at a concentration of 5 µg/mL. Rodent Aβ [1-40] or human Aβ [1-40] was then added to the wells and incubated for 2 hours. After washing, rabbit (polyclonal) anti-Aβ40 cleavage site specific antibody was added to the wells at a concentration of 1 µg/mL and incubated for 1 hour. The plate then was washed, followed by the addition of goat (polyclonal) anti-rabbit IgG HRP conjugated secondary antibody for 1 hour. After washing, stabilized chromogen was added to each well and incubated for 30 minutes. The O.D. values at 450 nm were measured following the addition of stop solution to each well. The data show that the sandwich ELISA using this monoclonal antibody asthe capture detects only rodent Aβ, not human Aβ.

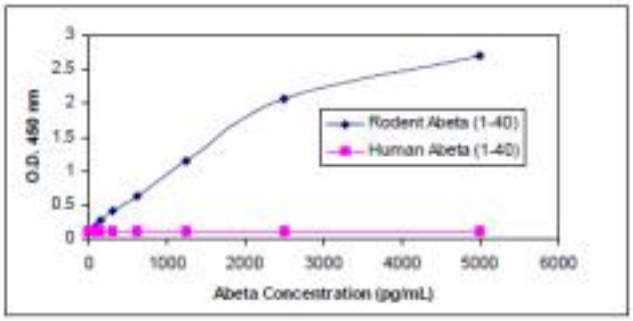
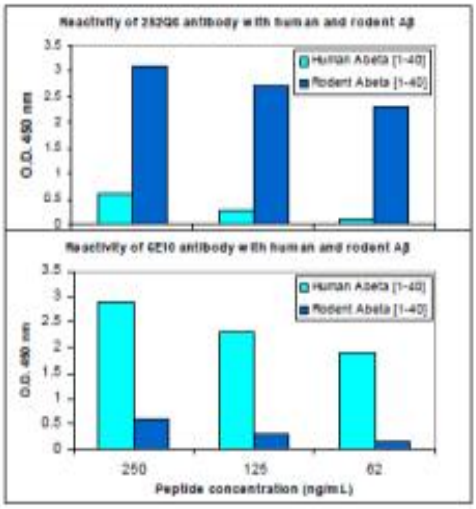


Figure 2.
Human and rodent Aβ [1-40] were coated onto the wells of 96 well plates. This monoclonal antibody (clone 252Q6) and monoclonal antibody 6E10 were then added to the wells and incubated for 1 hour. The plates were washed, followed by the addition of goat (polyclonal) anti-rabbit IgG HRP conjugated secondary antibody for 1 hour. After washing, stabilized chromogen was added to each well and incubated for 30 minutes. The O.D. values at 450 nm were measured following the addition of stop solution to each well. The data presented here show that antibody 252Q6 detects rodent Aβ, while antibody 6E10 detects human Aβ.



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