Amyloid Beta 1-42 (Aβ42) Monoclonal Antibody

ORDERING INFORMATION
Catalog No.: 57001 (clone Ab42.2)
Size: 100ug in PBS, pH 7.4. Purified by Protein G affinity chromatography.

BACKGROUND
Accumulation and aggregation of amyloid β (Aβ) in the brain is indicated as the trigger of a pathological cascade that causes Alzheimer disease (AD). The highly amyloidogenic 42-amino acid form of Aβ (Aβ42) and aminoterminally truncated forms of Aβ (Aβx-42) are the predominant species of Aβ typically found in diffuse and senile plaques within the AD brain. The relative levels of Aβ42 appear to be the key regulators of Aβ aggregation into amyloid; thus Aβ42 has been implicated as the initiating molecule in the pathogenesis of AD.

SPECIFICATION SUMMARY
Antigen: Synthetic peptide corresponding to Aβ35-42.
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY
This antibody specifically recognizes an epitope within Aβx-42. **NOTE:** When administered to young Tg2576 mice with minimal Aβ deposition, this antibody reduced Aβ accumulation in the brain.

APPLICATIONS
*Immunoblotting, Immunohistochemistry: Immunofluorescence, Immunoprecipitation*
Test at 1-10ug/ml.
*Sandwich ELISA* (as capture antibody with #57004 as HRP-conjugated detection antibody). These are recommended concentrations; enduser should determine optimal concentrations for their applications.
*Sandwich ELISA protocol on next page.* See specific product references below for more information.

DILUTION INSTRUCTIONS
Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY
This antibody is stable for at least one (1) year at -20°C.

PRODUCT REFERENCES

_For in vitro investigational use only. Not intended for diagnostic or therapeutic applications._
Sandwich ELISA Protocol

96-well ELISA plates are coated with capture MAb at 2.5-5ug/well and incubated at 4°C overnight. The next day 300ul of blocking buffer is added, and plates are again incubated at 4°C overnight. The next day plates are washed in PBS and serial dilution of Aβ samples are added; plates are incubated overnight at 4°C. The next day plates are washed in PBS, and HRP-conjugated detection Aβ MAb is added; plates are incubated for 4hrs at room temperature. Plates are washed in PBS-Tween and developed with TMB substrate for 5 mins.