Description: Monoclonal Antibody against Beta Amyloid (Aβ) 1-42 (12F4)  
(Formerly Signet Catalog Nos.: 9142-02, 9142-05, 9142-10)

Also Known As: amyloid beta A4 protein; preA4; protease nexin-II; peptidase nexin-II; beta-amyloid peptide; alzheimer disease amyloid protein; cerebral vascular amyloid peptide

Intended Use: **Research Use Only (RUO)**
This product is sold for laboratory research use only, not for human or in-vivo use.

Form: Purified Antibody (in PBS; no preservatives or carrier proteins)

Clone: 12F4

Host: Mouse

IsoType: IgG1

Species Reactivity: Human, Mouse

[Ab]: 0.5 mg/mL

Specificity:
12F4 is reactive to the c-terminus of beta amyloid and is specific for the isoform ending at the 42nd amino acid. This antibody was purified via Protein-G chromatography.

Uses:
This antibody is effective in immunoblotting (WB), immunohistochemistry (IHC), and ELISA.

Suggested Working Dilution:
The optimal working dilution should be determined for each specific assay condition.

- **WB:** 1:100-1:1,000
- **IHC:** 1:100-1:2,000
  - Tissue Sections: Formalin-fixed, paraffin-embedded tissues
  - Pretreatment: For optimal staining, the sections should be pretreated with formic acid (70%) for 10-30 minutes
  - Incubation: For optimal staining, the primary antibody should be incubated overnight at 4°C

- **ELISA:** 1:10,000-1:1,000,000

Storage:
Do not store antibody diluted below 50 µg/mL in the absence of protein (i.e.: add 2% bovine serum albumin). It is suggested that the total volume is aliquoted upon initial thaw. The antibody is best stored undiluted at -20°C to -70°C.

References:
Parvathy S, Davies P, Haroutunian V, Purohit DP, Davis KL, Mohs RC, Park H, Moran TM, Chan JY, Buxbaum JD. Correlation between AbetaX-

**Warranty/Conditions:**
Covance products may not be resold or modified for resale without prior written approval. All sales are subject to Covance Antibody Products Terms and Conditions of Sale.

**Datasheet Revision Date:**
11/6/2011