### Target description

The amyloid beta (1-40) peptide (A beta) is the main component of amyloid deposits found in the brain of patients afflicted with Alzheimer's disease. Brain to blood transport is believed to be a major determinant of the amount of amyloid beta protein (AbetaP) found in brain. Chronic brain hypoperfusion (CBH) initiates spatial memory loss in aging rats thus mimicking human mild cognitive impairment (MCI) and also increases A beta 1-40 in the hippocampus. The memory and amyloid changes are preceded by NO upregulation in the hippocampus. These preliminary findings may be important in understanding, at least in part, the molecular mechanisms that precede memory impairment during chronic brain ischemia and as such, the pre-clinical stage leading to Alzheimer's disease.

### Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide containing 1-40 amino acids of amyloid.

### Application

The antibody specificity was assayed by dot blot analysis with the synthetic Amyloid (1-40) peptide antigen and Western blot analysis. The antibody titer is more than 10K for Dot blot and 1,000X for Western blot analysis (data not shown). It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (data not shown). It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis, 1/100 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

### Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

### References


### Related Products

1. Anti-Amyloid β (37-42), rabbit pAb (GB-10370)