**Anti-Amyloid β (37-42), Rabbit-Polyclonal Antibody**

**Catalog No.** GB-10370  
**Quantity:** 100 μg  
**Applications tested:** ELISA, Western blot

**Antigen species:** Amyloid β (37-42)  
**Reactivity:** Amyloid β (37-42)

**Host species:** Rabbit  
**Form:** Peptide affinity purified antibody

**Target description**
The amyloid beta 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 separate wells. Incubate antibody for 1hr. Wash 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 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 C-terminal domain of Amyloid β (37-42).

**Application**
The antibody titer is more than 500K for ELISA. However, for the first testing, we recommend 1/3,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/50 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/30 dilution for IHC staining on paraffin embedded sections.

**Related Products**
1. Anti-Amyloid β (1-40) (GB-10356)

<table>
<thead>
<tr>
<th>Ab dilution</th>
<th>Pre-bleed</th>
<th>Purified-Ab</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:0.1K</td>
<td>1.620</td>
<td>1.979</td>
</tr>
<tr>
<td>1:1K</td>
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<td>1:10K</td>
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<tr>
<td>1:100K</td>
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<td>0.435</td>
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<tr>
<td>1:1,000K</td>
<td>0.044</td>
<td>0.107</td>
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<tr>
<td>Titer</td>
<td>~887.5K</td>
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</tbody>
</table>

**ELISA Protocol**
Amyloid β (37-42) peptide is coated on EIA strips at 1μg per well. Add 200μl of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibody GB-10370 is diluted in series as 10^2~10^6 folds and added in 1/3,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/50 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/30 dilution for IHC staining on paraffin embedded sections.

**Western blot analysis of amyloid beta (1-40) and amyloid beta (1-42) protein with GB-10370.**

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

**References**

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