

## Abeta 40

Cat.No. 218 221; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

### Data Sheet

Reconstitution/Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (ECL detection) (see remarks) <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> 1 : 500 (see remarks) <b>IHC-P/FFPE:</b> 1 : 500 <b>ELISA:</b> yes ; suitable as capture antibody for (see remarks)
Clone	280F2
Subtype	IgG2a (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 33 to 40 from human Abeta40 (UniProt Id: P05067)
Epitop	Epitop: AA 33 to 40 from human Abeta40 (UniProt Id: P05067)
Reactivity	Reacts with: human (P05067), rat (P08592), mouse (P12023). Other species not tested yet.
Specificity	Specific for Abeta 40
Remarks	<b>WB:</b> Boil membrane after blotting for 3min.  <b>IHC:</b> recommended protocol  <b>ELISA:</b> Mouse anti-Abeta 38/40/42/43; clone NT244 (cat. no. 218 211BT) is recommended as detector antibody.

### TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Amyloid deposits, also called plaques, of Alzheimer's patients consist of several protein components like the amyloid **beta**-peptides (**Abeta**, **Aβ**) 1-40/42/43 and additional C- and N-terminally modified fragments of Abeta as for instance Abeta pE3 and Abeta pE11.

An additional Abeta variant, **Abeta 38**, is more soluble compared to other Abeta species and is not found in plaques of sporadic Alzheimer's cases. However, it is detected in the blood-vessel walls of a subset of patients with severe cerebral amyloid angiopathy. It especially accumulates in brains of patients carrying mutations in the Abeta coding region.

Cleavage of amyloid precursor protein APP by β- and γ- secretases results in the generation of the Aβ (βA4)peptide, whereas α-secretase cleaves within the Aβ sequence and prevents the formation of Abeta from APP.

### Selected General References

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