Synaptic Systems

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Abeta 38/40/42/43

Cat.No. 218 111BT; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized, biotin-labeled. . For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 500 up to 1 : 1000 (see remarks) **IP**: not tested yet **ICC**: not tested yet **IHC**: 1 : 200 up to 1 : 500 (see remarks) **IHC-P/FFPE**: 1 : 200 up to 1 : 500 (see remarks)
Label	biotin
Clone	NT78
Subtype	IgG2b (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 1 to 16 from human Abeta (UniProt Id: P05067)
Epitop	Epitop: AA 4 to 16 from human Abeta (UniProt Id: P05067)
Reactivity	Reacts with: human (P05067), mouse (P12023). Other species not tested yet.
Specificity	Specific for Abeta 38, 40, 42, 43.
Remarks	**WB**: Boil membrane after blotting for 3min. **IHC**: Formic acid treatment required recommended protocol. **IHC-P**: Formic acid treatment required.

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 **a**myloid **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 **a**myloid **p**recursor **p**rotein 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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