

Abeta 38/40/42/43

Cat.No. 218 308; Recombinant Guinea pig antibody, 50 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/Storage	50 µg purified IgG, lyophilized. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: not tested yet IHC: 1 : 500 up to 1 : 1000 IHC-P/FFPE: 1 : 2000
Clone	GpNT244
Subtype	IgG2 (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 1 to 16 from human Abeta (UniProt Id: P05067)
Epitop	Epitop: AA 4 to 8 from human Abeta (UniProt Id: P05067)
Reactivity	Reacts with: mouse (P12023), human (P05067). Other species not tested yet.
Specificity	recognizes Abeta, 38, 40, 42, 43
Remarks	This antibody is a chimeric antibody based on the monoclonal mouse antibody NT244. The constant regions of the heavy and light chains have been replaced with Guinea pig specific sequences. The antibody can therefore be used with standard anti-Guinea pig secondary reagents. The antibody has been expressed in mammalian cells.

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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