Amyloid β A4 (CT, 1-42) monoclonal antibody (8G7)

The β-amyloid peptide (β A4), proteolytically released from the amyloid precursor protein (APP), provides the principal component of senile plaques in Alzheimer's disease. Cleavage of APP by α-secretase or alternatively by β-secretase leads to generation and extracellular release of soluble APP peptides, S-APP-α and S-APP-β, respectively, and the retention of corresponding membrane-anchored C-terminal fragments, C83 and C99. Subsequent processing of C83 by γ-secretase yields P3 peptides. This is the major secretory pathway and is nonamyloidogenic. Alternatively, presenilin/ nicastrin-mediated γ-secretase processing of C99 releases the amyloid β proteins, amyloid-β 40 (Aβ40) and amyloid-β 42 (Aβ42), major components of amyloid plaques, and the cytotoxic C-terminal fragments, γ-CTF(50), γ-CTF(57) and γ-CTF(59).

This antibody is covered by our Worry-Free Guarantee.

Citations: 3 View Online »

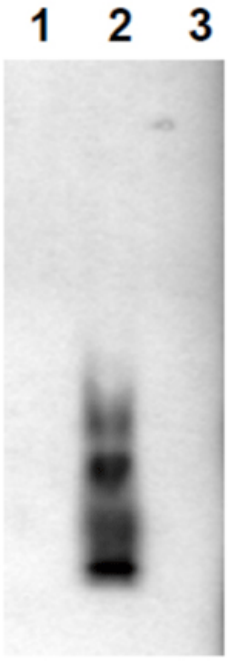
Ordering Information

Order Online »

ADI-905-804-100	100µg

Manuals, SDS & CofA

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Western blot analysis of (1) β A4 (1-40), (2) β A4 (1-42), and (3) β A4 (1-43), probed with 2µg/ml of Amyloid β A4 (42) mAb (8G7).

Handling & Storage

Use/Stability	Stable at -80°C up to 1 year, at 4°C up to 3 months.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	ELISA, ICC, WB
Application Notes	Detects a band of ~4kDa by Western blot.
Clone	8G7
Crossreactivity	Does not cross react with β A4 (1-40).
Formulation	Lyophilized from 1ml of 2x PBS containing 0.09% sodium azide, PEG, and sucrose.
Host	Mouse
Immunogen	Synthetic peptide corresponding to aa 1-42 of amyloid β A4.
Isotype	IgG1
Purity Detail	Thiophilic adsorption and size exclusion chromatography purified.
Recommendation Dilutions/Conditions	ELISA (0.05µg/ml)Immunocytochemistry (0.1-1.0µg/ml)Western Blot (1µg/ml)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Reconstitution	Reconstitute with 1ml water (15 minutes at room temperature).
Species Reactivity	Human

Technical Info / Product Notes	**Application Note:** *Analysis of the Effect of Aggregated β-Amyloid on Cellular Signaling Pathways Critical for Memory in Alzheimer's disease*
UniProt ID	P05067
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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