

For Alzheimer's Disease Research

Anti Amyloid β Antibody

BAN50/BNT77/BA27/BC05

Amyloid β (A β) is a peptide which consists of about 40 amino acids. A β is considered the cause of Alzheimer's disease, because it is a major component of senile plaques formed in the brains of Alzheimer's disease patients. A β has several types differing in length of the amino acid, The main types are A β 40 (40 amino acid) , A β 42(42 amino acid), and A β 43(43 amino acid). This items are mouse monoclonal antibodies developed by Takeda Pharmaceutical Company Limited.

Features

• **High reactivity and specificity**

• **4 kinds of antibodies**

BAN50 : Human A β N-terminus

BNT77 : A β middle region(11-28a.a)

BA27 : A β 40 C-terminus

BC05 : A β 42/43 C-terminus

• **Abundant reference**

- 1) Asami-Odaka, A., et al.: *Biochemistry*, **34**, 32, 10272(1995).
- 2) Takahara, Y., et al.: *J. Neurosci.*, **25**, 2, 436(2005).
- 3) Iwata, H., et al.: *J. Biol. Chem.*, **276**, 24, 21678(2001).
- 4) Tomita, T., et al.: *J. Neurosci.*, **19**, 24, 10627(1999).
- 5) Sudoh, S., et al.: *J. Neurochem.* **71**, 4, 1535(1998).
- 6) Iwatsubo, T., et al.: *Am J. Pathol.*, **149**, 6, 1823(1996). etc.

Clone No.	Isotype	Applications	Concentration	A β reactivity					
				Human			Mouse, Rat		
				A β 40	A β 42	A β 43	A β 40	A β 42	A β 43
BAN50	Mouse IgG1 \cdot k	WB/IP/IHC/ICC/ELISA	0.9-1.3 mg/mL	+	+	+	-	-	-
BNT77	Mouse IgA \cdot k	IP/IHC/ELISA	0.9-1.3 mg/mL	+	+	+	+	+	+
BA27	Mouse IgG2a \cdot k	WB/IHC/ELISA	0.9-1.3 mg/mL	+	-	-	+	-	-
BC05	Mouse IgG1 \cdot k	WB/IHC/ELISA	0.9-1.3 mg/mL	-	+	+	-	+	+

+: react -: not react

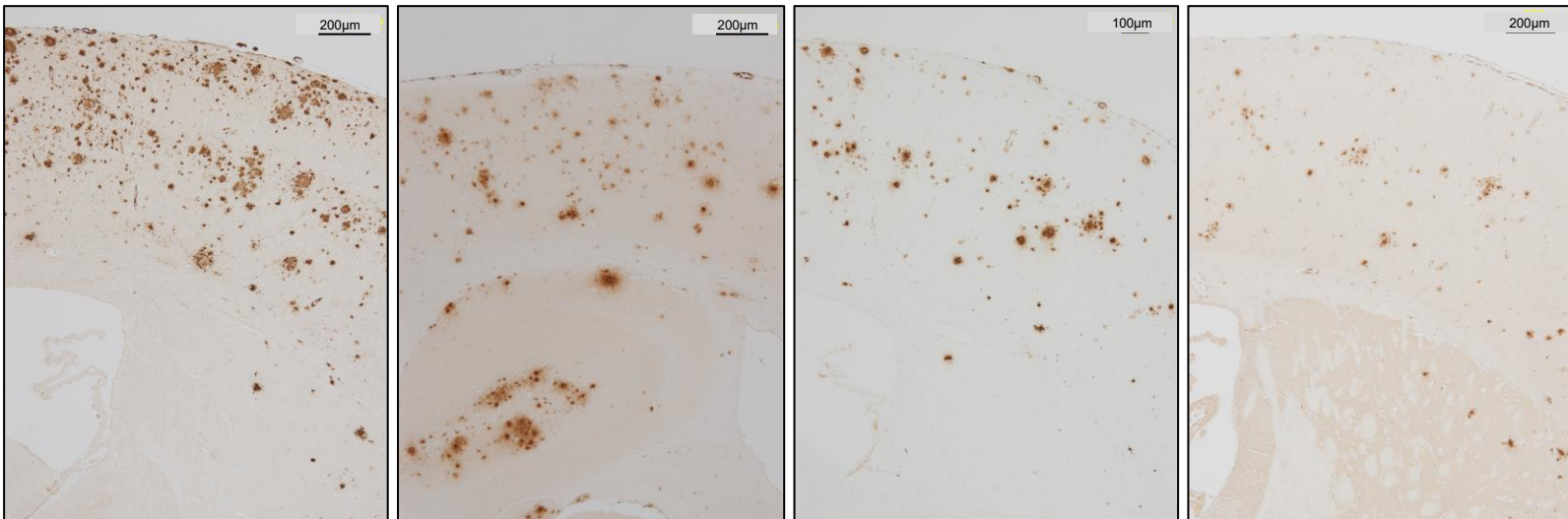
Immunohistochemistry -brain in Alzheimer's disease model mouse-

BAN50

BNT77

BA27

BC05



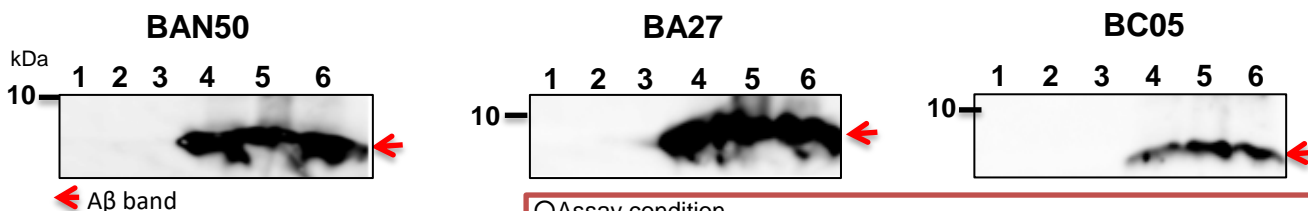
Aggregated A β in model mouse brain were immunostained by using this antibodies.

○ Assay condition

- Sample
Paraffin section of piriform cortex in Alzheimer's disease model mouse brain , 15-month old B6.Cg-Tg(APPswe.PSEN1dE9)85Dbo/Mmjax
- Antigen retrieval
BAN50: heat treatment in citrate buffer(pH6.0) and proteinase K treatment
BNT77/BA27/BC05: formic acid treatment
- Antibody concentration
BNT77/BAN50/BA27 : 1/1,000
BC05 : 1/100,000
- Secondary antibody Biotin-conjugated anti mouse IgG
- Detection method ABC +DAB

Western blotting – brain lysate of Alzheimer's model mouse-

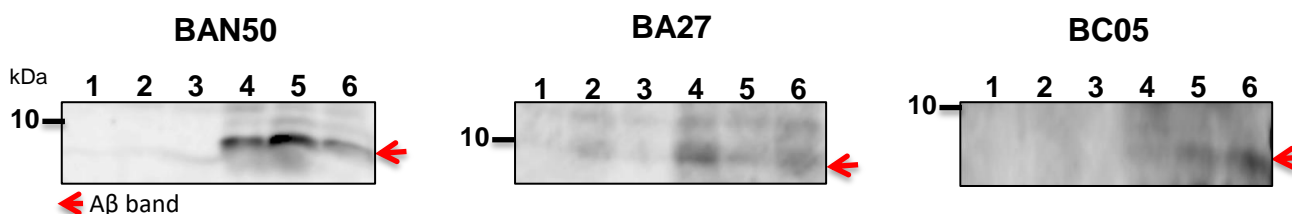
■ Detection of insoluble A β



Insoluble A β in model mouse brain were detected by using the antibodies.

○ Assay condition
 ■ Sample
 Lane 1-3: Formic acid -extracted DMSO solution of wildtype mouse brain, 15-month old
 Lane 4-6: Formic acid -extracted DMSO solution of Alzheimer's disease model mouse brain, 15-month old B6.Cg-Tg(APPswe.PSEN1dE9)85Dbo/Mmjax
 ■ Reduction treatment : done
 ■ Apply : 10 μ L/Lane
 ■ Antibody concentration : 1/1,000

■ Detection of soluble A β



Soluble A β in model mouse brain were detected by using the antibodies.

○ Assay condition
 ■ Sample
 Lane 1-3: TBS lysate of wildtype mouse brain, 15-month old
 Lane 4-6: TBS lysate of Alzheimer's disease model mouse brain, 15-month old B6.Cg-Tg(APPswe.PSEN1dE9)85Dbo/Mmjax
 ■ Apply : 30 μ g/lane
 ■ Reduction treatment : done
 ■ Antibody concentration : 1/1,000

All Western blotting data were provided by Hashimoto, T., and Iwatsubo, T., Graduate School of Medicine, University of Tokyo in Japan.

Product Name	Wako Cat. No	Pkg. Size	Grade	Storage Condition
Anti Human Amyloid β, Monoclonal Antibody (BAN50)	017-26871 013-26873	10 μ L 50 μ L	For Immunochemistry	Keep at -20 $^{\circ}$ C
Anti Amyloid β, Monoclonal Antibody (BNT77)	014-26881 010-26883	10 μ L 50 μ L	For Immunochemistry	Keep at -20 $^{\circ}$ C
Anti Amyloid β40, Monoclonal Antibody (BA27)	018-26921 014-26923	10 μ L 50 μ L	For Immunochemistry	Keep at -20 $^{\circ}$ C
Anti Amyloid β42(43), Monoclonal Antibody (BC05)	014-26901 010-26903	10 μ L 50 μ L	For Immunochemistry	Keep at -20 $^{\circ}$ C

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. / Please visit our online catalog to search for other products from Wako; <https://labchem-wako.fujifilm.com> / This leaflet may contain products that cannot be exported to your country due to regulations. / Bulk quote requests for some products are welcomed. Please contact us.

FUJIFILM Wako Pure Chemical Corporation

<https://labchem-wako.fujifilm.com>
 1-2, Doshomachi 3-Chome Chuo-Ku, Osaka 540-8605, Japan
 Tel.: +81 6 6203 3741 Fax: +81 6 6203 1999
ffwk-cservice@fujifilm.com



FUJIFILM Wako Chemicals U.S.A. Corporation

www.wakousa.com
 1600 Bellwood Road Richmond, VA 23237, USA
 Toll-Free (U.S. only): +1 877 714 1920
 Tel.: +1 804 714 1920 Fax: +1 804 271 7791
wkuslabchem@fujifilm.com

FUJIFILM Wako Chemicals Europe GmbH

www.wako-chemicals.de
 Fuggerstr 12, 41468 Neuss, Germany
 Tel.: +49 2131 311 0 Fax: +49 2131 311 100
labchem_wkeu@fujifilm.com