



Qty: 100 µg/200 µl

Mouse Anti-Amyloid β-
Precursor Protein (695aa)

Catalog No. 13-0200

Lot No. See product label

Mouse anti-Amyloid β-Precursor Protein (695aa)

FORM

Liquid. Purified antibody (from mouse ascites fluid) in PBS containing 0.1% sodium azide (NaN₃) at a concentration of 0.5 mg/ml.

CLONE: LN27⁽²⁾

ISOTYPE: IgG₁, kappa.

CLONING PARTNER: SP/2

IMMUNOGEN: rec-β-APP₆₉₅

APPLICATION

The β/A4 peptide in Alzheimer's disease (AD) amyloid deposits derives from one or more β-APPs (β-APP₆₉₅, β-APP₇₅₁, β-APP₇₇₀). LN27 recognizes an epitope within the first 200 amino acids in the β-APP amino terminus.

SPECIFICITY

This antibody reacts with an β-amyloid precursor protein (β-APP₆₉₅) that has a predicted amino acid sequence length of 695. There are 3 known β-APP proteins (β-APP₆₉₅, β-APP₇₅₁, β-APP₇₇₀) thought to be the source of amyloid β-peptide. This antibody will react with all 3 forms. Evidence indicates that β-APP is present in senile plaques, extraneuronal tangles, neurous, satellite glial cells of the dorsal root, enteric and trigeminal ganglia, megakaryocytes, cardiac muscle and the pituitary and adrenal glands.

REACTIVITY: Human

USAGE

Immunohistochemistry^{*(2)}: 5-10 µg/ml
Immunoblotting⁽²⁾: 0.5-1.0 µg/ml
ELISA⁽²⁾: 0.1-0.5 µg/ml

Western blotting^(5,6)
Staining of paraffin-embedded tissues⁽⁴⁾

*This antibody is suitable for immunohistochemical staining of alcohol-fixed paraffin-embedded or frozen tissue sections. Other fixatives may also work following formic acid treatment.

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

BACKGROUND

There are 3 known β-APP proteins (β-APP₆₉₅, β-APP₇₅₁, β-APP₇₇₀). The amyloid β-peptide is thought to be derived from all three precursor proteins.

(cont'd)

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PI130200

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REFERENCES

1. Arai et al; *PNAS USA* 87:2249-2253 (1990).
2. Arai et al; *Annals of Neurology* 30(5):686-693 (1991).
3. Arai et al; *Brain Res* 585:386-390 (1992).
4. Sheriff, F.E. et al; *Acta Neuropathology* 88:4433-439 (1994).
5. Ikezu, T. et al; *J. Biol. Chem.* 273(17): 10485-10495 (1998).
6. Tomita, S., et al; *J. Biol.Chem.* 274(4): 2243-2254 (1999).

RELATED PRODUCTS

Product	Clone	Cat. No.
Rb x Amyloid β -APP	CT695	51-2700
Ms x Amyloid β -Peptide	AMY-33	13-0100
Rb x Amyloid β -Peptide	polyclonal	71-5800
Ms x α -Synuclein	LB509	18-0215
Ms x Tau (C-term)	T46	13-6400
Ms x Tau	T14	13-1400
Rt x GFAP	2.2B10	13-0300
Ms x Neurofilaments	many	please inquire
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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