



OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200  
Rockville, MD 20850  
UNITED STATES  
Phone: +1-858-888-7900  
Fax: +1-858-888-7904  
[US-info@acris-antibodies.com](mailto:US-info@acris-antibodies.com)

AM00790PU-N

OriGene EU

**Acris Antibodies GmbH**  
Schillerstr. 5  
32052 Herford  
GERMANY  
Phone: +49-5221-34606-0  
Fax: +49-5221-34606-11  
[info@acris-antibodies.com](mailto:info@acris-antibodies.com)

## Monoclonal Antibody to Amyloid beta (1-43 specific) - Purified

<b>Catalog No.:</b>	AM00790PU-N
<b>Quantity:</b>	0.2 ml
<b>Concentration:</b>	0.5mg/ml (OD280nm)
<b>Background:</b>	Amyloid beta precursor protein gene (ABPP) encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Multiple transcript variants encoding several different isoforms have been found for this gene. Isoform APP695 is the predominant form in neuronal tissue, isoform APP751 and isoform APP770 are widely expressed in nonneuronal cells. Isoform APP751 is the most abundant form in T lymphocytes. ABPP is expressed in all fetal tissues examined with the highest levels in brain, kidney, heart and spleen with weak expression observed in liver; ABPP is induced during neuronal differentiation. In the adult brain, highest expression of ABPP gene is found in the frontal lobe of the cortex and in the anterior perisylvian cortex opercular gyri; moderate expression in the cerebellar cortex, the posterior perisylvian cortex opercular gyri and the temporal associated cortex. Weak expression is found in the striate, extra striate and motor cortices. Mutations in ABPP have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy).
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), AM03095PU-N
<b>Clone:</b>	9C4
<b>Immunogen:</b>	Peptide corresponding to the last 6 amino acids of ABx-43 coupled to KLH through the addition of an N-terminal cysteine.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Protein A chromatography <b>Buffer System:</b> PBS
<b>Applications:</b>	Western blot: 1:100 - 1:1,000. ELISA: >1:500. Immunohistochemistry on paraffin sections: 1:100 - 1:500; For optimal staining, sections should be pretreated with formic acid (70%) for 10 - 30 minutes; Antibody should be incubated with the sections overnight at 2 - 8°C. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

- Specificity:** This antibody is reactive to the C-terminus of beta amyloid and specific for the isoform ending at the 43rd amino acid.  
**Species:** Human.  
Other species not tested.
- Storage:** Store the antibody at -20°C.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.
- General Readings:** Parvathy, S., et al., (2001), Correlation between ABx-40-, ABx-42-, and ABx-43- containing amyloid plaques and cognitive decline, Arch. Neurol., 58, 2025–2032.