

beta Amyloid Polyclonal Antibody (CT695)

Product Details

Size	50 µg
Species	Human, Mouse, Pig, Rat
Published Species	Artificial Control, Tag, Pig, Rat, Hamster, Mouse, Human
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Clone	CT695
Conjugate	Unconjugated
Immunogen	A 22 amino acid synthetic peptide derived from the C-terminus of the human beta-amyloid precursor protein (beta-APP). This sequence is 100% conserved in human, monkey, mouse, rat, guinea pig, and chicken beta-APP proteins.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533902

Applications	Tested Dilution	Publications
ELISA (ELISA)	0.1-1.0 µg/mL	1 Publication
Immunofluorescence (IF)	1-5 µg/mL	11 Publications
Immunohistochemistry (IHC)	0.1-1.0 µg/mL	31 Publications
Western Blot (WB)	0.2-2 µg/mL	28 Publications
Immunocytochemistry (ICC)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry - Free Floating (IHC (Free))	-	4 Publications
Immunoprecipitation (IP)	-	7 Publications
Miscellaneous PubMed (Misc)	-	6 Publications

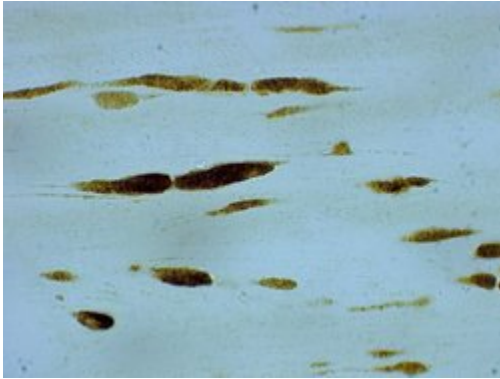
Product Specific Information

This antibody can be used to specifically detect the beta-amyloid precursor protein. The antibody reacts with full-length (APP695, 751, 770) and N-terminal truncated forms of beta-APP. The antibody can also be used to detect the C-terminal membrane-anchored fragment of beta-APP that remains after alpha- or beta-secretase cleavage. This antibody does not detect the beta-APP product N-terminal to the gamma-secretase cleavage site.

Reactivity with this antibody has been confirmed for human, mouse, pig, and rat. Based on sequence homology, reactivity with other species, including monkey, guinea pig, and chicken beta-APP, is highly likely. The CT695 antibody has demonstrated superiority in detecting axonal damage.

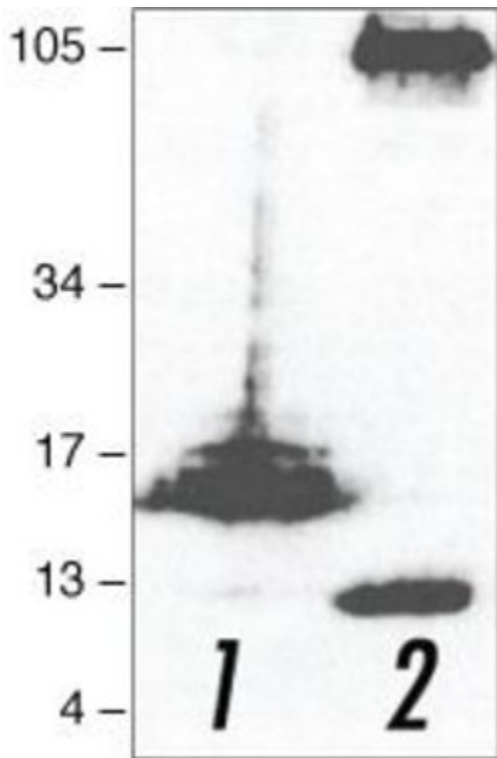
This antibody has been tested in western blotting with FRTL-5 (rat thyroid) cells and rat brain lysates. For immunohistochemistry FFPE tissues will require epitope retrieval pretreatment.

Product Images For beta Amyloid Polyclonal Antibody (CT695)



beta Amyloid Antibody (51-2700) in IHC

Rabbit anti-Beta-Amyloid Precursor Protein (CT695) stained rat corticospinal tract after 24 hrs Traumatic Axonal Injury. Image: Courtesy of Dr. James R. Stone, University of Virginia, Dept. of Neurosurgery.



beta Amyloid Antibody (51-2700) in WB

Western blot analysis of (lane 1) APP C-terminal fragment (C100)- and (lane 2) full-length APP (751)-transfected HEK293 cells using Rb anti-Amyloid-b Precursor Protein (APP) (Product # 51-2700).

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunohistochemistry (31)

Frontiers in neurology

The Importance of Inter-Species Variation in Traumatic Brain Injury-Induced Alterations of Microglial-Axonal Interactions.

"Published figure using beta Amyloid polyclonal antibody (Product # 51-2700) in Immunohistochemistry"

Authors: Gorse KM,Lafrenaye AD

Species

Artificial Control

Dilution

Not Cited

Year

2020

Frontiers in neurology

A Comparative Study of Two Blast-Induced Traumatic Brain Injury Models: Changes in Monoamine and Galanin Systems Following Single and Repeated Exposure.

"51-2700 was used in Immunohistochemistry-immunofluorescence to directly compare two established rodent models of rmbTBI, and to highlight the challenges of comparing findings from different animal models."

Authors: Kawa L,Kamnaksh A,Long JB,Arborelius UP,Hökfelt T,Agoston DV,Risling M

Species

Not Applicable

Dilution

1:400

Year

2020

[View more IHC references on thermofisher.com](#)

Western Blot (28)

Aging cell

A small molecule transcription factor EB activator ameliorates beta-amyloid precursor protein and Tau pathology in Alzheimer's disease models.

"Published figure using beta Amyloid polyclonal antibody (Product # 51-2700) in Western Blot"

Authors: Song JX,Malampati S,Zeng Y,Durairajan SSK,Yang CB,Tong BC,Iyaswamy A,Shang WB,Sreenivasmurthy SG,Zhu Z,Cheung KH,Lu JH,Tang C,Xu N,Li M

Species

Not Applicable

Dilution

Not Cited

Year

2020

Molecular neurobiology

Mechanical Stretch of High Magnitude Provokes Axonal Injury, Elongation of Paranodal Junctions, and Signaling Alterations in Oligodendrocytes.

"51-2700 was used in Western Blotting to show mechanical stretch of high magnitude provokes axonal injury with significant alterations in oligodendrocyte biology that could initiate demyelination."

Authors: Chierito E,Simon A,Castoldi F,Meffre D,Cristinziano G,Sapone F,Carrete A,Borderie D,Etienne F,Rannou F,Morrison B,Massaad C,Jafarian-Tehrani M

Species

Mouse
Artificial Control

Dilution

Not Cited
Not Cited

Year

2019

[View more WB references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC (5) IF (11) IHC (F) (7) IHC (Free) (4) Misc (6) IP (7) ELISA (1) IHC (P) (1)

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