Datasheet for ABIN725015

anti-Abeta 1-42 antibody (AA 1-42)

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Overview

Quantity:	100 µL
Target:	Abeta 1-42
Binding Specificity:	AA 1-42
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Abeta 1-42 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide of human beta-Amyloid(1-42)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Abeta 1-42

Target Details

Alternative Name:	beta Amyloid 1-42 (Abeta 1-42 Products)
Background:	Synonyms: AAA, AD1, PN2, ABPP, APPI, CVAP, ABETA, PN-II, CTFgamma, Amyloid beta A4 protein, APP, Alzheimer disease amyloid protein, Cerebral vascular amyloid peptide, PreA4, Protease nexin-II, A4 Background: The cerebral and vascular plaques associated with Alzheimer's disease are mainly composed of Amyloid beta peptides. beta Amyloid is derived from cleavage of the Amyloid precursor protein and varies in length from 39 to 43 amino acids. beta Amyloid [1-40], beta Amyloid [1-42], and beta Amyloid [1-43] peptides result from cleavage of Amyloid precursor protein after residues 40, 42, and 43, respectively. The cleavage takes place by gamma-secretase during the last Amyloid precursor protein processing step. beta Amyloid [1-40], beta Amyloid [1-42], and beta Amyloid [1-43] peptides are major constituents of the plaques and tangles that occur in Alzheimer's disease. beta Amyloid and peptides have been developed as tools for elucidating the biology of Alzheimer's disease.
Gene ID:	351
UniProt:	P05067

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Behairi, Belkhelfa, Rafa, Labsi, Deghbar, Bouzid, Mesbah-Amroun, Touil-Boukoffa: "All-trans retinoic acid (ATRA) prevents lipopolysaccharide-induced neuroinflammation, amyloidogenesis and memory impairment in aged rats." in: **Journal of neuroimmunology**, Vol. 300, pp. 21-29, (2017) (PubMed).

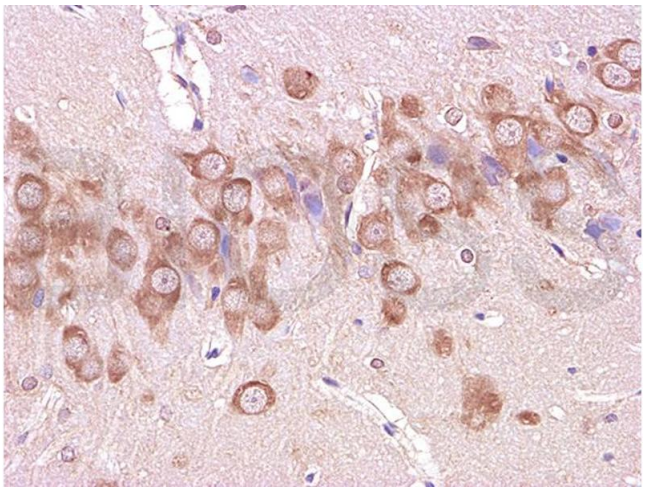
Vinothkumar, Kedharnath, Krishnakumar, Sreedhar, Preethikrishnan, Dinesh, Sundaram, Balakrishnan, Shivashekar, Sureshkumar, Venkataraman: "Abnormal amyloid β42expression and increased oxidative stress in plasma of CKD patients with cognitive dysfunction: A small scale case control study comparison with Alzheimer's disease." in: **BBA clinical**, Vol. 8, pp. 20-27, (2017) (PubMed).

Tian, Guo, Wu, Ma, Zhao: "Minocycline Alleviates Sevoflurane-Induced Cognitive Impairment in Aged Rats." in: **Cellular and molecular neurobiology**, (2015) (PubMed).

Wang, Wang: "Studying the relationship between cell cycle and Alzheimer's disease by gold nanoparticle probes." in: **Analytical biochemistry**, Vol. 489, pp. 32-7, (2015) (PubMed).

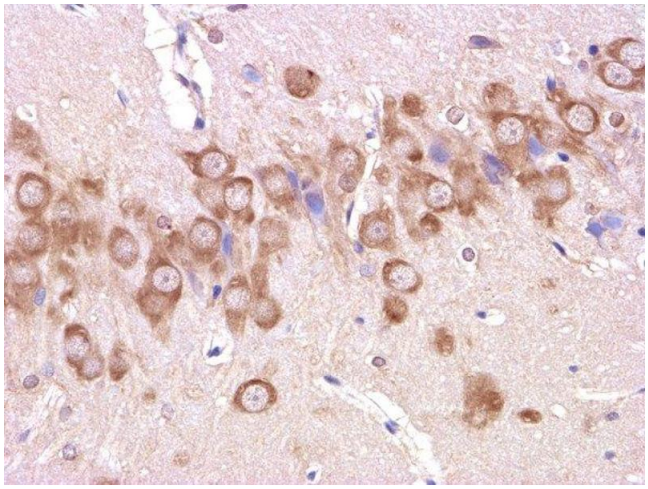
Li, Dai, Sun, Xiang, Yang, Dai, Zhang: "Neuroglobin Attenuates Beta Amyloid-Induced Apoptosis Through Inhibiting Caspases Activity by Activating PI3K/Akt Signaling Pathway." in: **Journal of molecular neuroscience : MN**, (2015) (PubMed).

There are more publications referencing this product on: Product page



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded: rat brain tissue labeled with Anti-beta-Amyloid(1-42) Polyclonal Antibody (ABIN725015), Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded: rat brain tissue labeled with Anti-beta-Amyloid(1-42) Polyclonal Antibody , Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining

