

# Product Datasheet

## Abeta 40 Antibody - Azide Free NBP1-44047

Unit Size: 0.05 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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**NBP1-44047**

Abeta 40 Antibody - Azide Free

Product Information	
<b>Unit Size</b>	0.05 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 50% (v/v) Glycerol with 1 mg/ml Bovine Serum Albumin (BSA)

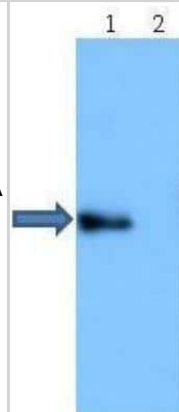
Product Description	
<b>Description</b>	<p>This antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
<b>Host</b>	Rabbit
<b>Gene ID</b>	351
<b>Gene Symbol</b>	APP
<b>Species</b>	Human, Mouse, Rat, Primate
<b>Reactivity Notes</b>	A BLAST analysis was used to suggest reactivity with human, sheep, rabbit, canine, bovine, pig, guinea pig, and monkey based on 100% sequence homology. This antibody will not react with AB42. Cross-reactivity with Beta Amyloid from other sources has not been determined.
<b>Specificity/Sensitivity</b>	A BLAST analysis was used to suggest reactivity with human, sheep, rabbit, canine, bovine, pig, guinea pig, and monkey based on 100% sequence homology. This antibody will not react with AB42. Cross-reactivity with Beta Amyloid from other sources has not been determined.
<b>Immunogen</b>	Abeta 40 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminus region of AB40. (Uniprot: P05067)

Product Application Details	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1 ug/ml, ELISA 1:20000-1:60000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:100-1:500
<b>Application Notes</b>	This product is useful for Western Blot and ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~86.9 kDa corresponding to the appropriate cell lysate or extract.



## Images

Western Blot: Abeta 40 Antibody [NBP1-44047] - 1-40(lane 1) and 1-42 (lane 2) ABeta peptides were run on a 16.5% TRIS/tricine gel and transferred to PVDF membrane. The peptide concentration was approximately 0.5ng/lane. The blot was incubated with affinity purified AB40 antibody at 1ug/ml, followed by an oat and rabbit -HRP antibody at 1:40,000 and developed using a standard chemiluminescence method. A single band is present only in lane 1 which contains the ABeta 1-40 peptide and no signal is found in lane 2 which contains the ABeta 1-42 peptide.



## Publications

Kose S, Kutlu MD, Kara S et al. Investigation of the protective effect of long-term exercise on molecular pathways and behaviours in scopolamine induced Alzheimer's disease-like condition Brain research 2023-06-01 [PMID: 37269967] (IHC)

Bortolotti D, Gentili V, Rotola A HHV-6A infection induces amyloid-beta expression and activation of microglial cells Alzheimers Res Ther 2019-12-12 [PMID: 31831060] (ICC/IF, Human)

Dominguez-Prieto M, Velasco A, Tabernero A et al. Endocytosis and Transcytosis of Amyloid- $\beta$  Peptides by Astrocytes: A Possible Mechanism for Amyloid- $\beta$  Clearance in Alzheimer's Disease J. Alzheimers Dis. 2018-08-07 [PMID: 30103329] (ICC/IF)

Selkoe DJ. Physiol Rev. 81:741-766. 2001-01-01 [PMID: 11274343]

Esler WP, Stimson ER, Fishman JB, Ghilardi JR, Vinters HV, Mantyh PW, Maggio JE. Stereochemical specificity of Alzheimer's disease beta-peptide assembly. Biopolymers;49(6):505-14. 1999-05-01 [PMID: 10193196]

Glenner, GG Wong CW. Alzheimer's disease: initial report of the purification and characterization of a novel cerebrovascular amyloid protein. Biochem Biophys Res Commun;120(3):885-90. 1984-05-01 [PMID: 6375662]



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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
210-TA-005	TNF-alpha [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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