Datasheet for ABIN723680

anti-IDE antibody (AA 491-590)

2 Validations

6 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	IDE
Binding Specificity:	AA 491-590
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDE antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human IDE
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	IDE

Target Details

Alternative Name:	IDE (IDE Products)
Background:	Synonyms: INSULYSIN, Insulin-degrading enzyme, Abeta-degrading protease, Insulin protease, Insulinase, IDE Background: Plays a role in the cellular breakdown of insulin, IAPP, glucagon, bradykinin, kallidin and other peptides, and thereby plays a role in intercellular peptide signaling. Degrades amyloid formed by APP and IAPP. May play a role in the degradation and clearance of naturally secreted amyloid beta-protein by neurons and microglia.
Gene ID:	3416
UniProt:	P14735
Pathways:	SARS-CoV-2 Protein Interactome

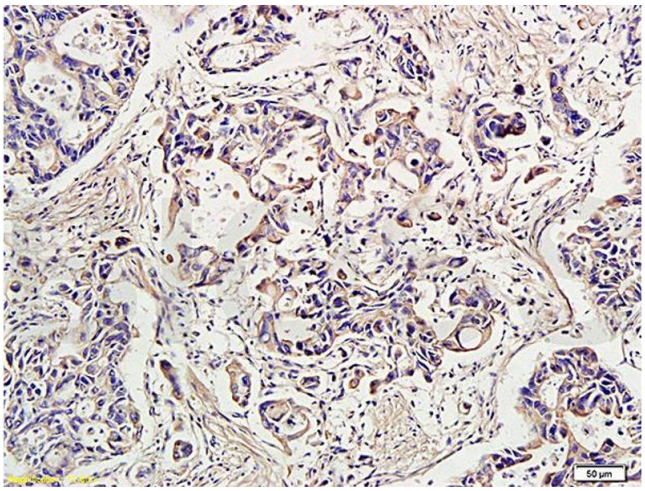
Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	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

Restrictions:	For Research Use only

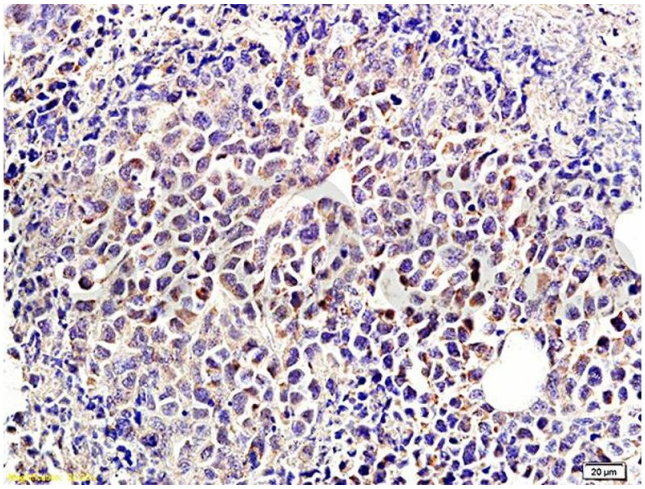
Handling

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



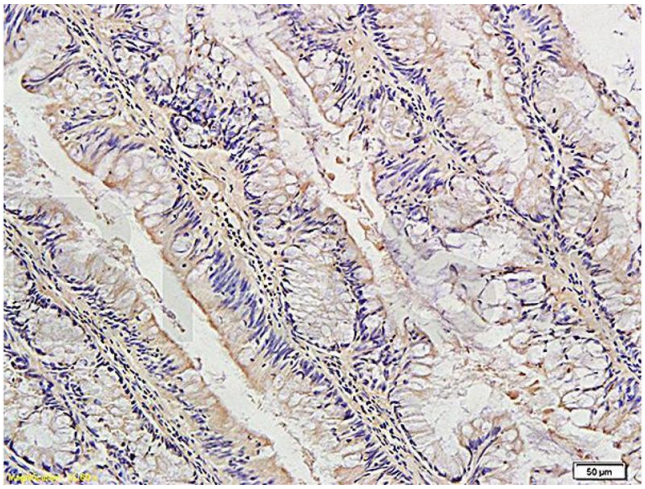
Immunohistochemistry

Image 1. Formalin-fixed and paraffin-embedded human gastric carcinoma labeled with Rabbit Anti-IDE Polyclonal Antibody, Unconjugated (ABIN723680) at 1:300 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin-embedded mouse tumor labeled with Rabbit Anti-IDE Polyclonal Antibody, Unconjugated (ABIN723680) at 1:300 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded human colon cancer labeled with Anti-IDE Polyclonal Antibody, Unconjugated (ABIN723680) at 1:300, followed by conjugation to the secondary antibody and DAB staining

Please check the product details page for more images. Overall 6 images are available for ABIN723680.

Validation report #104435 for Immunohistochemistry (IHC)

Successfully validated (Immunohistochemistry (IHC))

by Prof. Merighi, Laboratory of Neurobiology, Department of Veterinary Sciences, University of Turin

Report Number: 104435

Date: Mar 15 2023

Target:	IDE
Lot Number:	9C07M588
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Adult mouse liver fixed in 4% paraformaldehyde
Negative Control:	One control slice for each experimental procedure processed omitting the primary antibody; overnight incubation in diluent solution only.
Notes:	Passed. The IDE antibody (AA 491-590) ABIN723680 works in IHC-P at 1:100 concentrations with Tyramide amplification.
Primary Antibody:	ABIN723680
Secondary Antibody:	poly-HRP conjugated goat anti-rabbit antibody
Protocol:	• Perfuse mice with paraformaldehyde 4% in 0.1 M phosphate buffer pH 7.4 and post-fix in the same fixative for an additional 2 h at RT. • Wash, dehydrate, and embed samples in paraffin wax. • Wash several times with 0.01 M PBS. • Cut liver with a microtome into 20 µm sections and mount on glass slides. • After paraffin removal, incubate sections for 1 h at RT in PBS containing 1% albumin from chicken egg white (Sigma, A5378) and 0.3% Triton-X-100 (BioRad, 161-0407, lot 00583) to block non-specific binding sites. • Incubate sections with primary rabbit anti-IDE (antibodies-online, ABIN723680, lot 9C07M588) diluted 1:50, 1:100, 1:200, and 1:300 in PBS-BSA-PLL ON at RT in a humid chamber. • Wash sections 3x 5 min with 0.01 M PBS. • Incubate sections with secondary poly-HRP conjugated goat anti-rabbit antibody from Alexa Fluor 488 Tyramide SuperBoost Kit, goat anti-rabbit IgG (Thermo Fisher Scientific, B40922, lot 2465062) for 1 h at RT. • Wash sections 3x 5 min with 0.01 M PBS. • Incubate sections with Tyramide working solution containing 100X Tyramide stock solution (Alexa 488), 100X H_2O_2 solution and 1X Reaction buffer for 10 min. • Stop the reaction with the Reaction Stop Reagent working solution. • Wash sections 3x 5 min with 0.01M PBS.

- Mount specimens in Fluoroshield (Sigma, F6182, lot MKCB0153V).
- Acquire images with a fluorescence microscope and appropriate filter settings for AF488, e.g. Leica DM 6000B fluorescence microscope equipped with a digital camera at 40x magnification.

Image for Validation report #104435

Validation image no. 1 for anti-Insulin-Degrading Enzyme (IDE) (AA 491-590) antibody (ABIN723680)

Staining of IDE positive cells in the adult mouse liver with ABIN723680.

Validation report #104497 for Western Blotting (WB)

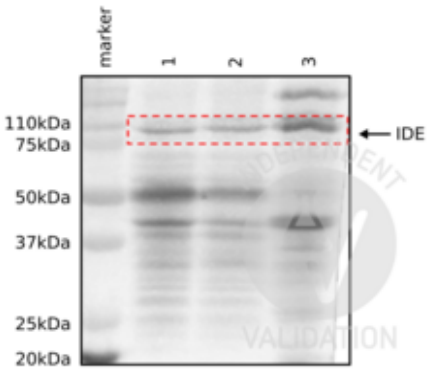
Successfully validated (Western Blotting (WB))

by Prof. Merighi, Laboratory of Neurobiology, Department of Veterinary Sciences, University of Turin

Report Number: 104497

Date: Mar 15 2023

Target:	IDE
Lot Number:	9C07M588
Method validated:	Western Blotting (WB)
Positive Control:	Adult mouse brain, cerebellum, and liver
Notes:	Passed. The IDE antibody (AA 491-590) ABIN723680 works in WB at 1:1000 concentrations with sensitive ECL substrate.
Primary Antibody:	ABIN723680
Secondary Antibody:	HRP-conjugated mouse anti-rabbit
Protocol:	• Homogenize tissues with cold lysis buffer containing 50 mM Tris HCl, 150 mM NaCl, 1% Triton X-100, 1 mM EDTA, and 1% protease inhibitor (Sigma P8340) using an ultrasonic homogenizer (MSE, SoniPrep 150) with 16 amplitude, 20 s on, 10 s off pulse for 60 s. • Centrifuge tissue homogentates at 13,000 rpm for 20 min at 4 °C. • Collect supernatants and Determine total protein content using a Bradford assay. • Denature 50 µg of total protein for 5 min at 90 °C and subsequently separate them on a denaturing 12% PAGE-SDS gel alongside a Precision Plus Protein Dual Color Standard (Bio-Rad, 160374). • Electro-transfer proteins onto nitrocellulose membrane (Amerscham Biosciences, RPN203D) ON in the cold room. • Wash membrane 3x for 10 mon with 0.01 M PBS containing 0.1% Tween-20 (PBST). • Block membrane with PBST containing 2% bovine serum albumin for 1 h at RT. • Incubate membrane with primary rabbit anti-IDE antibody (antibodies-online, ABIN723680, lot 9C07M588) diluted 1:1,000 in PBST ON at 4 °C. • Wash membrane 3x 10 min with PBST. • Incubate membrane with secondary HRP-conjugated mouse anti-rabbit IgG (Sigma, A1949) diluted 1:4,000 in PBST for 1 h at RT. • Wash membrane 3x 10 min with PBST. • Visualize proteins with WesternBright Sirius HRP substrate (Advansta, K-12043) using a ChemiDoc Imaging System.



Validation image no. 1 for anti-Insulin-Degrading Enzyme (IDE) (AA 491-590) antibody (ABIN723680)

Western blot detection of IDE (110 kDa) in adult mouse brain (1), cerebellum (2), and liver (3) tissue homogenates with ABIN723680.