DATASHEET

IDE Rabbit Polyclonal Antibody

CAT. NO. APA13494

KEY FEATURES

Target	IDE	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Plays a role in the cellular breakdown of insulin, APP peptides, IAPP peptides, natriuretic peptides, glucagon, bradykinin, kallidin, and other peptides, and thereby plays a role in intercellular peptide signaling . Substrate binding induces important conformation changes, making it possible to bind and degrade larger substrates, such as insulin . Contributes to the regulation of peptide hormone signaling cascades and regulation of blood glucose homeostasis via its role in the degradation of insulin, glucagon and IAPP . Plays a role in the degradation and clearance of APP-derived amyloidogenic peptides that are secreted by neurons and microglia (Probable) . Degrades the natriuretic peptides ANP, BNP and CNP, inactivating their ability to raise intracellular cGMP .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to IDE
Specificity	Recognizes endogenous levels of IDE protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human IDE
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 54; Observed: 118 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Insulin-degrading enzyme; Abeta-degrading protease; Insulin protease; Insulinase; Insulysin
Gene Symbol	IDE
Entrez Gene	3416(Human); 25700(Rat)
SwissProt	P14735(Human); Q9JHR7(Mouse); P35559(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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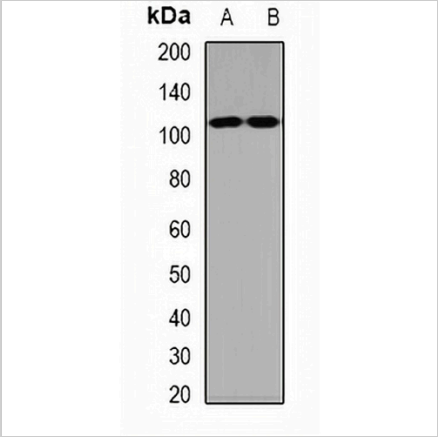
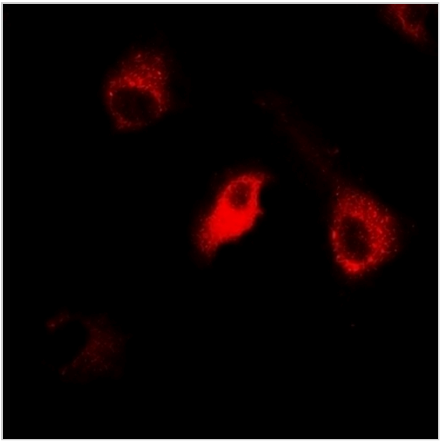
DATA



Western blot analysis of IDE expression in mouse liver (A), mouse heart (B) whole cell lysates. (Predicted band size: 54; 117 kD; Observed band size: 118 kD)



Immunofluorescent analysis of IDE staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.