abcam

Product datasheet

HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099] ab201836

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099]
Description	HRP Rabbit monoclonal [EPR6099] to Insulin degrading enzyme / IDE
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, A375, and K562 whole cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), PBS, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR6099
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab201836 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 118 kDa (predicted molecular weight: 118 kDa).

Target

Function	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.
Sequence similarities	Belongs to the peptidase M16 family.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Cytoplasm. Cell surface. Present at the cell surface of neuron cells. The membrane-associated isoform is approximately 5 kDa larger than the known cytosolic isoform.

Images

Western blot - HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099] (ab201836)

All lanes : HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099] (ab201836) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : IDE (Insulin degrading enzyme / IDE) knockout HAP1 whole cell lysate

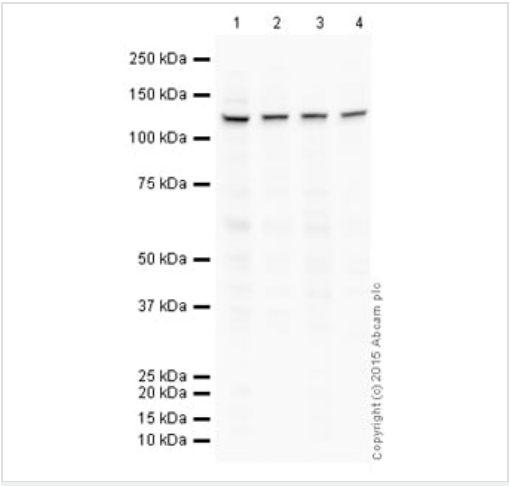
Lysates/proteins at 20 µg per lane.

Predicted band size: 118 kDa

Observed band size: 118 kDa

Exposure time: 20 minutes

ab201836 was shown to specifically react with Insulin degrading enzyme / IDE in wild-type HAP1 cells as signal was lost in IDE (Insulin degrading enzyme / IDE) knockout cells. Wild-type and IDE (Insulin degrading enzyme / IDE) knockout samples were subjected to SDS-PAGE. Ab201836 and **ab184095** (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.



Western blot - HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099] (ab201836)

All lanes : HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099] (ab201836) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
Lane 3 : A375 (Human melanoma cell line) Whole Cell Lysate
Lane 4 : K562 (Human erythromyeloblastoid leukemia cell line) Nuclear Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 118 kDa
Observed band size: 118 kDa

Exposure time: 30 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab201836 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

HRP Anti-Insulin degrading enzyme / IDE antibody [EPR6099] (ab201836)

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