


Product datasheet

Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] ab133561

KO VALIDATED Recombinant RabMAB

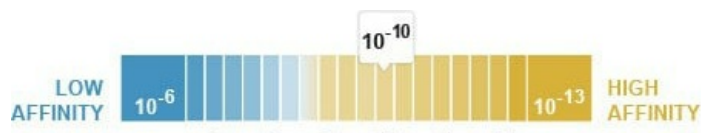
★★★★★ 5 Abreviews 16 References 5 Images

Overview

Product name	Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)]
Description	Rabbit monoclonal [EPR6098(2)] to Insulin degrading enzyme / IDE
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human Insulin degrading enzyme/ IDE aa 50-150. The exact sequence is proprietary. Database link: P14735
Positive control	HeLa, HepG2, A375, and K562 cell lysates, Human colon tissue
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 2.31 x 10 ⁻¹⁰ M



Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6098(2)
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab133561 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

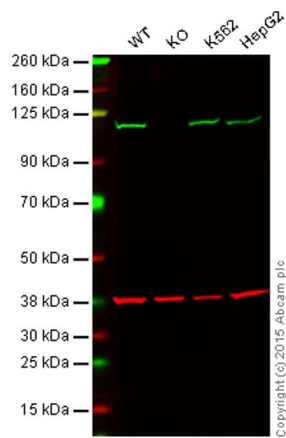
Application	Abreviews	Notes
WB	★★★★★ (3)	1/1000 - 1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 118 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

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 - Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] (ab133561)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

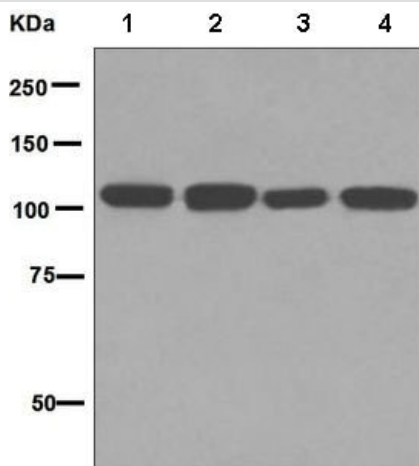
Lane 2: IDE knockout HAP1 cell lysate (20 µg)

Lane 3: K562 cell lysate (20 µg)

Lane 4: HepG2 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab133561 observed at 120 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab133561 was shown to specifically react with IDE in wild-type HAP1 cells. No band was observed when IDE knockout samples were examined. Wild-type and IDE knockout samples were subjected to SDS-PAGE. ab133561 and ab8245 (loading control to GAPDH) were diluted 1/1000 and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] (ab133561)

All lanes : Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] (ab133561) at 1/1000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : A375 cell lysate

Lane 4 : K562 cell lysate

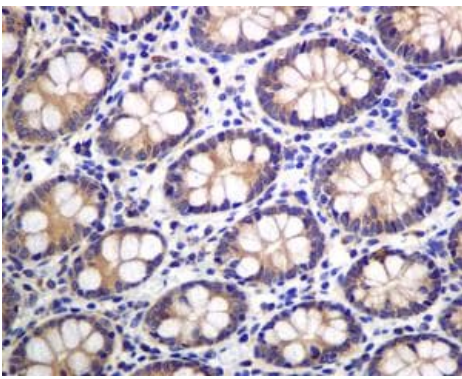
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 118 kDa

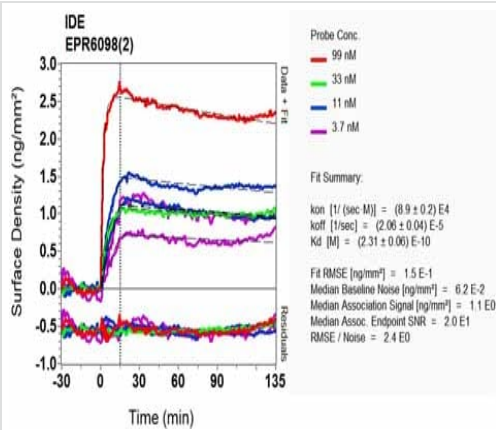
Observed band size: 120 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] (ab133561)

Immunohistochemical analysis of paraffin embedded Human colon tissue labelling Insulin degrading enzyme / IDE with ab133561 antibody at a dilution of 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Ox-LD Scanning - Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] (ab133561)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-Insulin degrading enzyme / IDE antibody [EPR6098(2)] (ab133561)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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