

Anti-ERp57 antibody [EPR10679(B)] ab154197

KO VALIDATED Recombinant RabMAb

9 Images

Overview

Product name	Anti-ERp57 antibody [EPR10679(B)]
Description	Rabbit monoclonal [EPR10679(B)] to ERp57
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, HepG2, Daudi and 293T cell lysates; Human pancreas and stomach tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR10679(B)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154197 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		1/1000 - 1/10000. Predicted molecular weight: 57 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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

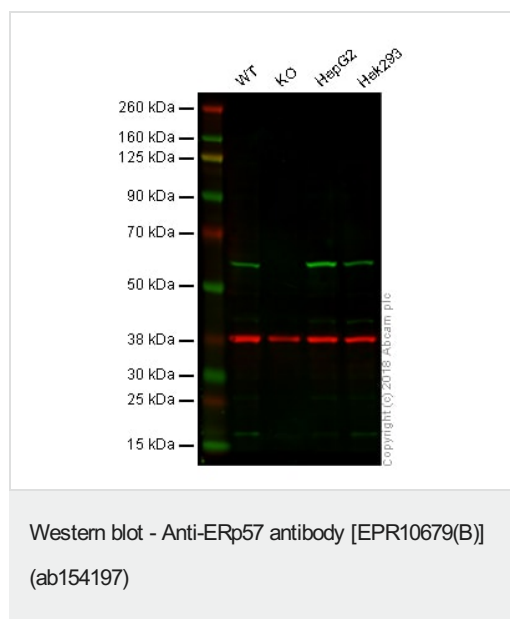
Target

Tissue specificity Detected in the flagellum and head region of spermatozoa (at protein level).

Sequence similarities Belongs to the protein disulfide isomerase family.
Contains 2 thioredoxin domains.

Cellular localization Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



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

Lane 2: ERp57 knockout HAP1 whole cell lysate (20 µg)

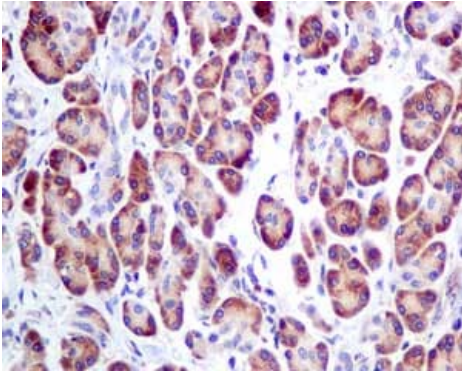
Lane 3: HepG2 whole cell lysate (20 µg)

Lane 4: Hek293 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab154197 observed at 57 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab154197 was shown to specifically react with ERp57 in wild-type HAP1 cells as signal was lost in ERp57 knockout cells. Wild-type and ERp57 knockout samples were subjected to SDS-PAGE.

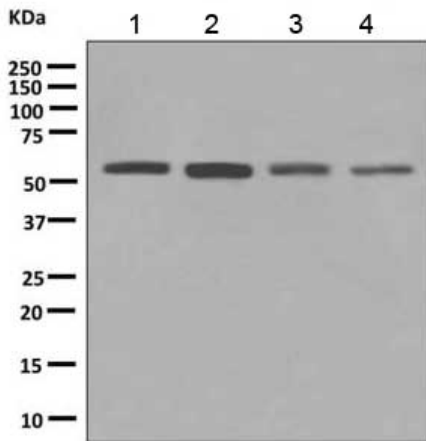
ab154197 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERp57 antibody [EPR10679(B)] (ab154197)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling ERp57 with ab154197 at 1/50 dilution

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



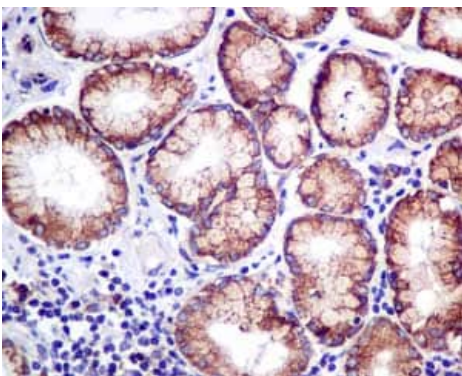
Western blot - Anti-ERp57 antibody [EPR10679(B)] (ab154197)

All lanes : Anti-ERp57 antibody [EPR10679(B)] (ab154197) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : 293T cell lysate
Lane 4 : Daudi cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 57 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERp57 antibody [EPR10679(B)] (ab154197)

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling ERp57 with ab154197 at 1/50 dilution

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERp57 antibody
[EPR10679(B)] (ab154197)

Immunohistochemical analysis of paraffin embedded Human endometrial carcinoma tissue using ab154197 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERp57 antibody
[EPR10679(B)] (ab154197)

Immunohistochemical analysis of paraffin embedded Human normal brain tissue using ab154197 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERp57 antibody
[EPR10679(B)] (ab154197)

Immunohistochemical analysis of paraffin embedded Human cervical carcinoma tissue using ab154197 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERp57 antibody
[EPR10679(B)] (ab154197)

Immunohistochemical analysis of paraffin embedded Human thyroid gland carcinoma tissue using ab154197 showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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-ERp57 antibody [EPR10679(B)] (ab154197)

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