abcam

Product datasheet

Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free ab240392

敲除验证 重组 RabMAb

9 图像

概述

产品名称	Anti-PEG10/EDR抗体[EPR20051] - BSA and Azide free
描述	兔单克隆抗体[EPR20051] to PEG10/EDR - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IP, ICC/IF, IHC-P, WB
种属反应性	**与反应:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HepG2 and HeLa cell lysates.
常规说明	ab240392 is the carrier-free version of **ab215035**.

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR20051
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab240392于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

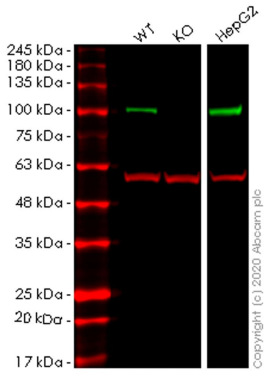
应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 100 kDa (predicted molecular weight: 30,80 kDa).

靶标

功能	Prevents apoptosis in hepatocellular carcinoma (HCC) cells through interaction with SIAH1, a mediator of apoptosis. May also have a role in cell growth promotion and hepatoma formation. Inhibits the TGF-beta signaling by interacting with the TGF-beta receptor ALK1. When overexpressed, induces the formation of cellular extension, such as filipodia in association with ALK1. Involved at the immediate early stage of adipocyte differentiation (By similarity). May bind to the 5'-GCCTGTCTTT-3' DNA sequence of the MB1 domain in the myelin basic protein (MBP) promoter.
组织特异性	Expressed in the cytotrophoblast layer but not in the overlying syncytiotrophoblast of the placenta. Expressed in prostate and breast carcinomas but not in normal breast and prostate epithelial cells. Expressed in the HepG2 cell line (at protein level). Expressed in brain, liver, spleen, kidney, thymus, lung, ovary, testis, reactive lymph node, skeletal muscle, adipose tissue and placenta. Expressed in pancreatic and hepatocellular carcinomas (HCC).
序列相似性	Contains 1 CCHC-type zinc finger.

发展阶段	Expressed in placenta during the first trimester of gestation (at protein level). In placenta, down-regulated at early hypoxic phase, and highly activated at 11-12 week of gestation.
翻译后修饰	Isoform RF1/RF2 undergoes proteolytic cleavage.
细胞定位	Nucleus. Cytoplasm. Detected predominantly in the cytoplasm of breast and prostate carcinomas, in hepatocellular carcinoma (HCC) and B-cell chronic lymphocytic leukemia (B-CLL) cells and in the HepG2 cell line. Colocalized with ALK1.

图片



Western blot - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

All lanes : Anti-PEG10/EDR antibody [EPR20051] (**ab215035**) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : PEG10 knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

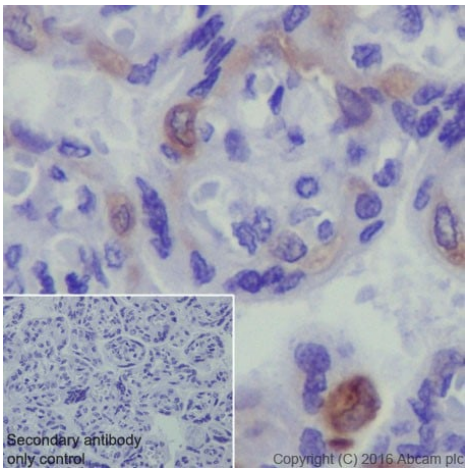
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 30,80 kDa
Observed band size: 100 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab215035**).

Lanes 1-3: Merged signal (red and green). Green - **ab215035** observed at 100 kDa. Red - loading control **ab7291** observed at 50 kDa.

ab215035 Anti-PEG10/EDR antibody [EPR20051] was shown to specifically react with PEG10/EDR in wild-type HeLa cells. Loss of signal was observed when knockout sample **ab258103** was used. Wild-type and PEG10/EDR knockout samples were subjected to SDS-PAGE. **ab215035** and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



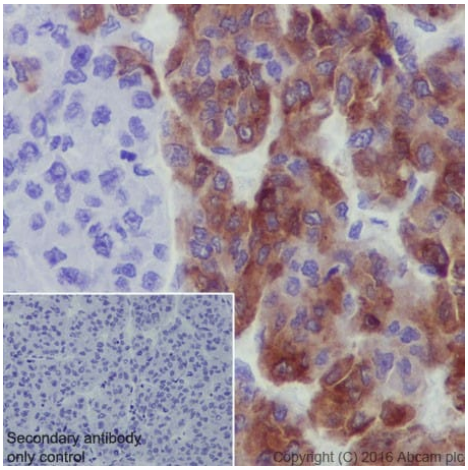
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling PEG10/EDR with **ab215035** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Cytoplasmic staining on some cells in human placenta is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



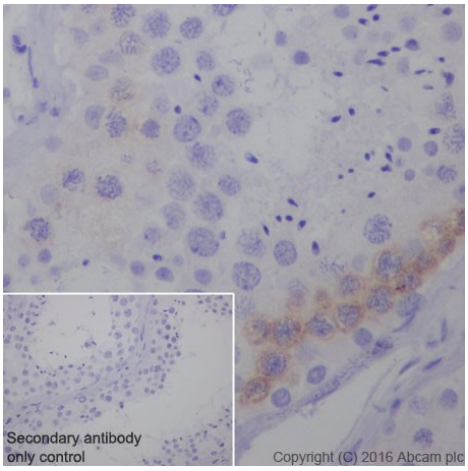
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue labeling PEG10/EDR with **ab215035** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Cytoplasmic staining on part of the cells in human liver cancer is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



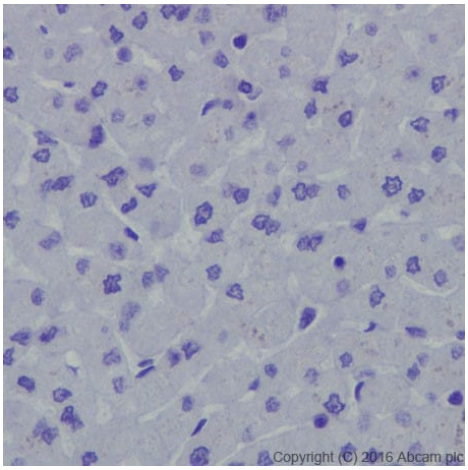
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling PEG10/EDR with **ab215035** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Cytoplasmic staining on the germ cells in human testis is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

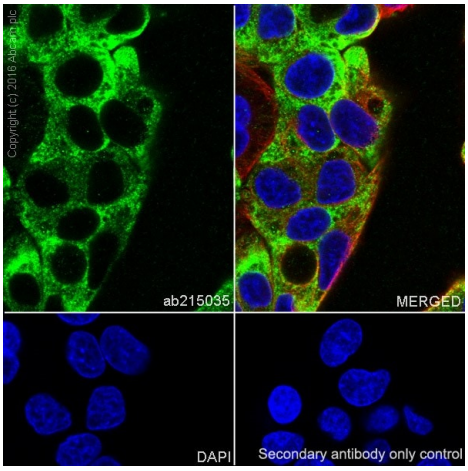
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling PEG10/EDR with **ab215035** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

Negative staining on normal cells in human liver.

Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



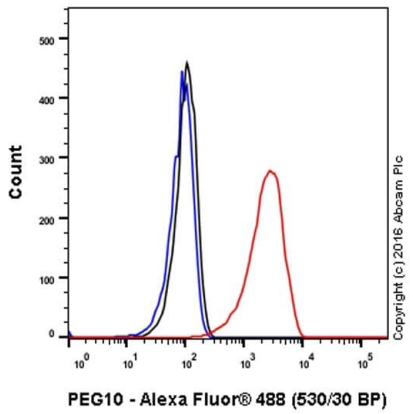
Immunocytochemistry/ Immunofluorescence - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling PEG10/EDR with **ab215035** at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HepG2 cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

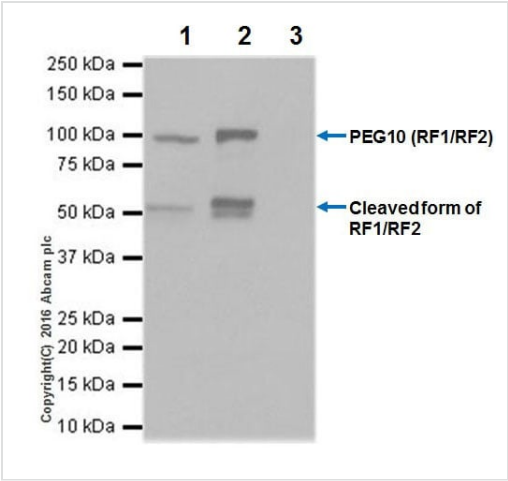
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).



Flow Cytometry (Intracellular) - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling PEG10/EDR with **ab215035** at 1/500 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).



Immunoprecipitation - Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

PEG10/EDR was immunoprecipitated from 0.35 mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with **ab215035** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab215035** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HepG2 whole cell lysate, 10 µg (Input).

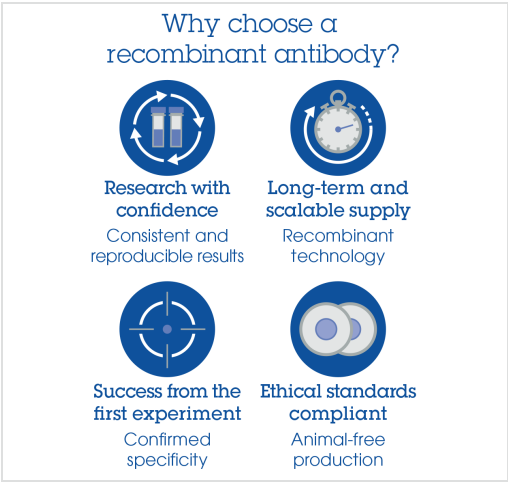
Lane 2: **ab215035** IP in HepG2 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab215035** in HepG2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215035**).



Anti-PEG10/EDR antibody [EPR20051] - BSA and Azide free (ab240392)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors