abcam

Product datasheet

Anti-ENO1 antibody [EPR19758] ab227978

ועלשעבע RabMAb

10 References 画像数 11

製品の概要

製品名 Anti-ENO1 antibody [EPR19758]

製品の詳細 Rabbit monoclonal [EPR19758] to ENO1

由来種 Rabbit

特異性 ab227978 does not cross-react with ENO2 or ENO3.

アプリケーション 適用あり: IHC-P, WB, ICC/IF, IP, Flow Cyt (Intra)

種交差性 交差種: Mouse, Rat, Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

ポジティブ・コントロール WB: MCF7, RAW 264.7, Jurkat, HeLa, NIH/3T3 and C6 whole cell lysates; human skeletal muscle

> tissue lysate; mouse brain, heart and kidney tissue lysates; rat brain, heart, liver and spleen tissue lysates. IP: Jurkat whole cell lysate. IHC-P: Human pancreas and clear cell renal cell carcinoma

tissue; mouse and rat pancreas tissue. ICC/IF: HeLa and NIH/3T3 cells.

特記事項 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**.

製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

バッファー pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS

精製度 Protein A purified

ポリモノ モノクローナル

クローン名 EPR19758

アイソタイプ IgG

アプリケーション

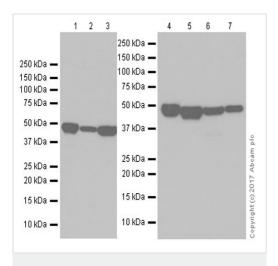
The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab227978の使用に適用されます アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 47 kDa.
ICC/IF		1/500.
IP		1/30.
Flow Cyt (Intra)		1/600.

ターゲット情報

機能	Multifunctional enzyme that, as well as its role in glycolysis, plays a part in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production. MBP1 binds to the myc promoter and acts as a transcriptional repressor. May be a tumor suppressor.	
組織特異性	The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons.	
パスウェイ	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.	
配列類似性	Belongs to the enolase family.	
発生段階	During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells.	
翻訳後修飾	ISGylated.	
細胞内局在	Nucleus and Cytoplasm. Cell membrane. Cytoplasm > myofibril > sarcomere > M line. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form. ENO1 is localized to the M line.	

画像



Western blot - Anti-ENO1 antibody [EPR19758] (ab227978)

All lanes : Anti-ENO1 antibody [EPR19758] (ab227978) at 1/1000 dilution

Lane 1: Mouse brain tissue lysate

Lane 2: Mouse heart tissue lysate

Lane 3: Mouse kidney tissue lysate

Lane 4: Rat brain tissue lysate

Lane 5: Rat heart tissue lysate

Lane 6: Rat liver tissue lysate

Lane 7: Rat spleen tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 47 kDa **Observed band size:** 47 kDa

Exposure time: 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.

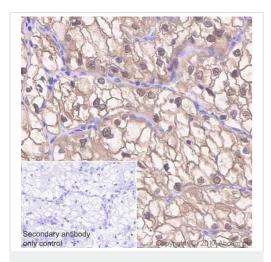
ab227978 MERGED

Immunocytochemistry/ Immunofluorescence - Anti-ENO1 antibody [EPR19758] (ab227978)

Immunofluorescent analysis of 4% paraformaldegyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling ENO1 with ab227978 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and weakly nuclear staining in HeLa cell line.

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

-ve control: PBS instead of primary antibody, followed by Goat Anti-Rabbit $\lg G$ H&L (Alexa Fluor 8 488) (ab150077) secondary antibody at 1/1000 dilution .

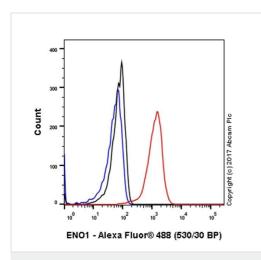


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ENO1 antibody
[EPR19758] (ab227978)

Immunohistochemical analysis of paraffin-embedded human clear cell renal cell carcinoma tissue labeling ENO1 with ab227978 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit lgG H&L (HRP). Membranous and nuclear staining in human clear cell kidney carcinoma (PMID: 26037892) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit lgG H&L (HRP).

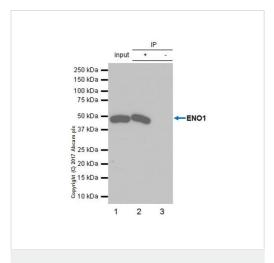
Perform heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).



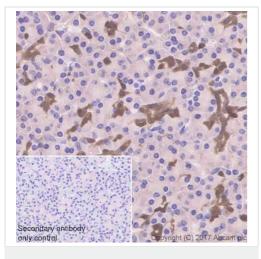
Flow Cytometry (Intracellular) - Anti-ENO1 antibody [EPR19758] (ab227978)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling ENO1 with ab227978 at 1/600 dilution (red) compared witha Rabbit lgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue).

Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (<u>ab150077</u>), at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-ENO1 antibody [EPR19758] (ab227978)



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ENO1 antibody
[EPR19758] (ab227978)

ENO1 was immunoprecipitated from 0.35 mg of Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate with ab227978 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab227978 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

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

Lane 2: ab227978 IP in Jurkat whole cell lysate.

Lane 3: Rabbit monoclonal $\lg G$ ($\underline{ab172730}$) instead of ab227978 in Jurkat whole cell lysate.

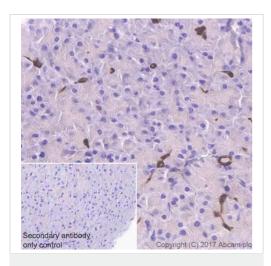
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 seconds.

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling ENO1 with ab227978 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic and nuclear staining in medium-small ducts of human pancreas (PMID: 19425054) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).

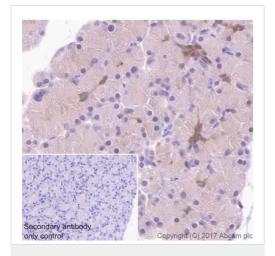


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ENO1 antibody
[EPR19758] (ab227978)

Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue labeling ENO1 with ab227978 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit lgG H&L (HRP). Cytoplasmic and nuclear staining in medium-small ducts of mouse pancreas is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit lgG H&L (HRP).

Perform heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).

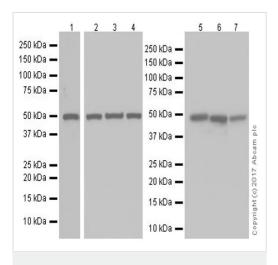


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ENO1 antibody
[EPR19758] (ab227978)

Immunohistochemical analysis of paraffin-embedded rat pancreas tissue labeling ENO1 with ab227978 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic and nuclear staining in medium-small ducts of rat pancreas is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-ENO1 antibody [EPR19758] (ab227978)

All lanes : Anti-ENO1 antibody [EPR19758] (ab227978) at 1/1000 dilution

Lane 1: Human skeletal muscle tissue lysate at 20 µg

Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate at 20 µg

Lane 3: HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg

Lane 4 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 20 μg

Lane 5 : C6 (rat glial tumor glial cell line) whole cell lysate at 10 μ g Lane 6 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate at 10 μ g Lane 7 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 10 μ g

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/100000 dilution

Developed using the ECL technique.

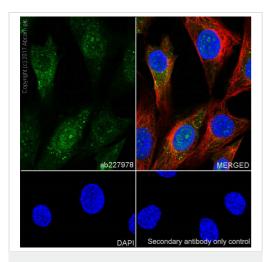
Predicted band size: 47 kDa **Observed band size:** 47 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lane 1: 15 seconds.

Lanes 2-7: 1 second.

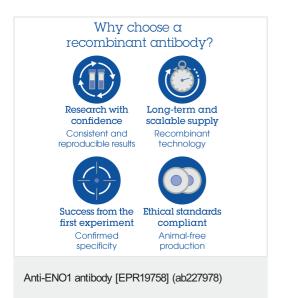


Immunocytochemistry/ Immunofluorescence - Anti-ENO1 antibody [EPR19758] (ab227978)

Immunofluorescent analysis of 4% paraformaldegyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryo fibroblast cell line) cells labeling ENO1 with ab227978 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and nuclear staining in NIH/3T3 cell line.

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

-ve control: PBS instead of primary antibody, followed by Goat Anti-Rabbit lgG H&L (Alexa Fluo^{r®} 488) (<u>ab150077</u>) secondary antibody at 1/1000 dilution.



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