abcam

Product datasheet

Anti-Peroxiredoxin 1/PAG antibody [EPR5433] ab109498



יעלטעבע RabMAb

6 References 画像数6

製品の概要

製品名 Anti-Peroxiredoxin 1/PAG antibody [EPR5433]

製品の詳細 Rabbit monoclonal [EPR5433] to Peroxiredoxin 1/PAG

由来種 Rabbit

アプリケーション 適用あり: WB, IHC-P

適用なし: №

種交差性 交差種: Mouse, 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: HEK293T, Jurkat, HAP1, A431, MCF-7, NIH/3T3, K562 and Mouse brain cell lysates. IHC-P:

Kidney tissue and Thyroid carcinoma tissue.

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.

Rat: We have preliminary internal testing data to indicate this antibody may not react with this

species. Please contact us for more information.

製品の特性

製品の状態

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

Avoid freeze / thaw cycle.

バッファー pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

精製度 Protein A purified

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ポリÆノ モノクローナル **ウローン名** EPR5433 **Pイソタイプ** IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab109498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。

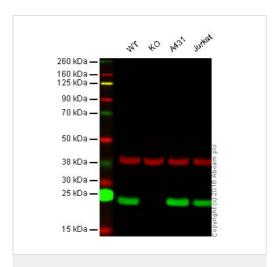
アプリケーション	Abreviews	特記事項
WB		1/10000 - 1/50000. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).
IHC-P		1/1000 - 1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval

追加情報 Is unsuitable for IP.

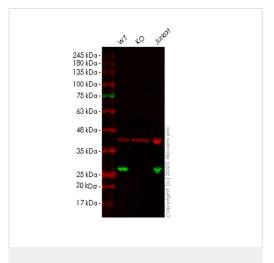
ターゲット情報

> >> III TIK	
機能	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation.
配列類似性	Belongs to the ahpC/TSA family. Contains 1 thioredoxin domain.
翻訳後修飾	Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity.
細胞内局在	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

画像



Western blot - Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498)



Western blot - Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498)

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

Lane 2: Peroxiredoxin 1/PAG knockout HAP1 cell lysate (20 µg)

Lane 3: A431 cell lysate (20 µg)

Lane 4: Jurkat cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab109498 observed at 23 kDa. Red - loading control, <u>ab8245</u>, observed at 37 kDa.

ab109498 was shown to specifically react

with Peroxiredoxin 1/PAG when Peroxiredoxin 1/PAG knockout samples were used. Wild-type and Peroxiredoxin 1/PAG knockout samples were subjected to SDS-PAGE. ab109498 and <u>ab8245</u> (loading control to GAPDH) were both diluted 1/10 000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (<u>ab216773</u>) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (<u>ab216776</u>) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.

All lanes : Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498) at 1/1000 dilution

Lane 1: Wild-type HEK293T cell lysate

Lane 2: PRDX1 knockout HEK293T cell lysate

Lane 3: Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

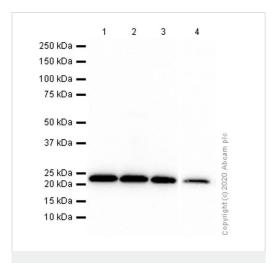
Secondary

All lanes : Goat anti-Rabbit lgG H&L (IRDye® 800CW) preadsorbed (<u>ab216773</u>) at 1/10000 dilution

Predicted band size: 22 kDa **Observed band size:** 26 kDa

Lanes 1-3: Merged signal (red and green). Green - ab109498 observed at 26 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab109498 Anti-Peroxiredoxin 1/PAG antibody [EPR5433] was shown to specifically react with Peroxiredoxin 1/PAG in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266842 (knockout cell lysate ab257040) was used. Wild-type and Peroxiredoxin 1/PAG knockout samples were subjected to SDS-PAGE. ab109498 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) 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.



Western blot - Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498)

All lanes : Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498) at 1/10000 dilution

Lane 1 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 2: K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

Lane 3: NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

Lane 4: Mouse brain lysate

Lysates/proteins at 20 µg per lane.

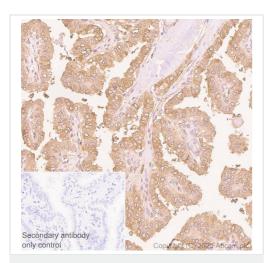
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution

Predicted band size: 22 kDa Observed band size: 22 kDa

Exposure time: 10 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST



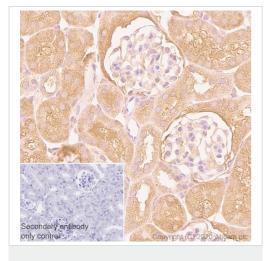
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498)

Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue labeling Peroxiredoxin 1/PAG with ab109498 at 1/1000 (0.155 ug/ml) dilution. The section was incubated with ab109498 for 30 mins at room temperature and followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Counterstained with Hematoxylin.

Positive staining on the human thyroid cancer, performed on a Leica Biosystems BOND® RX instrument.

Secondary antibody only control: Rabbit specific IHC polymer detection kit HRP/DAB (ab209101)

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



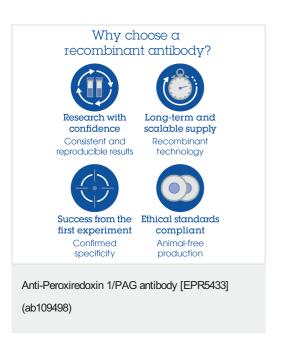
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Peroxiredoxin 1/PAG antibody [EPR5433] (ab109498)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling Peroxiredoxin 1/PAG with ab109498 at 1/4000 (0.038 ug/ml) dilution. The section was incubated with ab109498 for 30 mins at room temperature and followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Counterstained with Hematoxylin.

Positive staining on the mouse kidney, performed on a Leica Biosystems BOND® RX instrument.

Secondary antibody only control: Rabbit specific IHC polymer detection kit HRP/DAB (ab209101)

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



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