

Anti-CPS1 antibody [EPR7493-3] - BSA and Azide free ab248283

KO 評価済 リコンビナント RabMAb

画像数 2

製品の概要

製品名	Anti-CPS1 antibody [EPR7493-3] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR7493-3] to CPS1 - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: IHC-P, Flow Cyt (Intra), WB
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: HeLa cell lysate and human liver tissue lysate.
特記事項	<p>ab248283 is the carrier-free version of ab129076.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR7493-3
アイソタイプ	IgG

アプリケーション

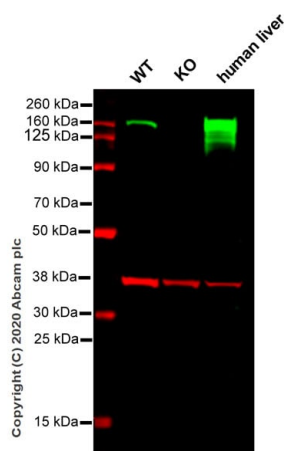
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab248283の使用に適用されます**
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アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 150 kDa (predicted molecular weight: 165 kDa).

ターゲット情報

機能	Involved in the urea cycle of ureotelic animals where the enzyme plays an important role in removing excess ammonia from the cell.
組織特異性	Primarily in the liver and small intestine.
関連疾患	<p>Defects in CPS1 are the cause of carbamoyl phosphate synthetase 1 deficiency (CPS1D) [MIM:237300]. CPS1D is an autosomal recessive disorder of the urea cycle causing hyperammonemia. Clinical features include protein intolerance, intermittent ataxia, seizures, lethargy, developmental delay and mental retardation.</p> <p>Note=Genetic variations in CPS1 influence the availability of precursors for nitric oxide (NO) synthesis and play a role in clinical situations where endogenous NO production is critically important, such as neonatal pulmonary hypertension, increased pulmonary artery pressure following surgical repair of congenital heart defects or hepatovenocclusive disease following bone marrow transplantation. Infants with neonatal pulmonary hypertension homozygous for Thr-1406 have lower L-arginine concentrations than neonates homozygous for Asn-1406.</p>
配列類似性	<p>Contains 2 ATP-grasp domains.</p> <p>Contains 1 glutamine amidotransferase type-1 domain.</p>
ドメイン	The type-1 glutamine amidotransferase domain is defective.

画像



Western blot - Anti-CPS1 antibody [EPR7493-3] - BSA and Azide free (ab248283)

All lanes : Anti-CPS1 antibody [EPR7493-3] ([ab129076](#)) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : CPS1 knockout HeLa cell lysate

Lane 3 : Human liver tissue lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 165 kDa

Observed band size: 165 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab129076](#)).

Lanes 1-3: Merged signal (red and green). Green - [ab129076](#) observed at 165 kDa. Red - loading control, [ab8245](#) observed at 37 kDa.

[ab129076](#) Anti-CPS1 antibody [EPR7493-3] was shown to specifically react with CPS1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab261809](#) (knockout cell lysate [ab257121](#)) was used. Wild-type and CPS1 knockout samples were subjected to SDS-PAGE. [ab129076](#) 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 10000 dilution for 1 hour at room temperature before imaging.

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

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