

Anti-CD133 antibody [CMab-43] ab264538

リコンビナント

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製品の概要

製品名	Anti-CD133 antibody [CMab-43]
製品の詳細	Mouse monoclonal [CMab-43] to CD133
由来種	Mouse
アプリケーション	適用あり: IHC-P, WB 適用なし: ICC/IF
種交差性	交差種: Human
免疫原	Recombinant fragment within Human CD133. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: O43490 Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: Caco-2, HT-29 and NCCIT whole cell lysate. IHC-P: Human pancreas tissue. Human endometrium carcinoma tissue.
特記事項	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com . 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 .

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: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	CMab-43
アイソタイプ	IgG2a
軽鎖の種類	kappa

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ab264538の使用に適用されず
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 citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 97 kDa.

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

機能 May play a role in cell differentiation, proliferation and apoptosis (PubMed:24556617). Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner (PubMed:20818439).

組織特異性 Isoform 1 is selectively expressed on CD34 hematopoietic stem and progenitor cells in adult and fetal bone marrow, fetal liver, cord blood and adult peripheral blood. Isoform 1 is not detected on other blood cells. Isoform 1 is also expressed in a number of non-lymphoid tissues including retina, pancreas, placenta, kidney, liver, lung, brain and heart. Found in saliva within small membrane particles. Isoform 2 is predominantly expressed in fetal liver, skeletal muscle, kidney, and heart as well as adult pancreas, kidney, liver, lung, and placenta. Isoform 2 is highly expressed in fetal liver, low in bone marrow, and barely detectable in peripheral blood. Isoform 2 is expressed on hematopoietic stem cells and in epidermal basal cells (at protein level). Expressed in adult retina by rod and cone photoreceptor cells (at protein level).

関連疾患 Retinitis pigmentosa 41
Cone-rod dystrophy 12
Stargardt disease 4
Retinal macular dystrophy 2

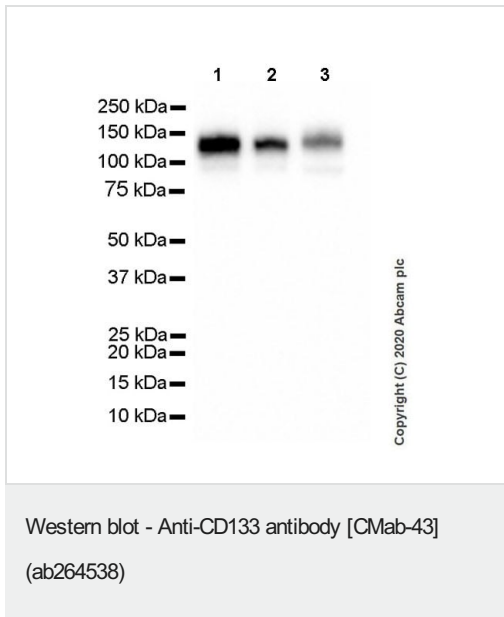
配列類似性 Belongs to the prominin family.

翻訳後修飾 Isoform 1 and isoform 2 are glycosylated.
Acetylation at Lys-225, Lys-257 and Lys-264 by NAT8 and NAT8B may control PROM1 protein expression and its function in cell apoptosis.

細胞内局在 Apical cell membrane. Cell projection, microvillus membrane. Cell projection, cilium, photoreceptor outer segment. Endoplasmic reticulum. Endoplasmic reticulum-Golgi intermediate

compartment. Found in extracellular membrane particles in various body fluids such as cerebrospinal fluid, saliva, seminal fluid and urine.

画像



All lanes : Anti-CD133 antibody [CMab-43] (ab264538) at 1/1000 dilution

Lane 1 : Caco-2 (human colorectal adenocarcinoma epithelial cell), whole cell lysate

Lane 2 : HT-29 (human colorectal adenocarcinoma epithelial cell), whole cell lysate

Lane 3 : NCCIT (human pluripotent embryonic carcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

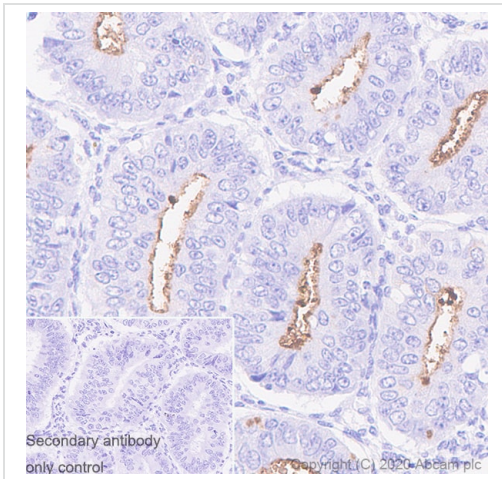
Predicted band size: 97 kDa

Observed band size: 128 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

The 128KDa band is glycosylated form which is consistent with what has been described in the literature (PMID: 28910211, 20199106, 30873590).

Exposure time: 7 seconds.

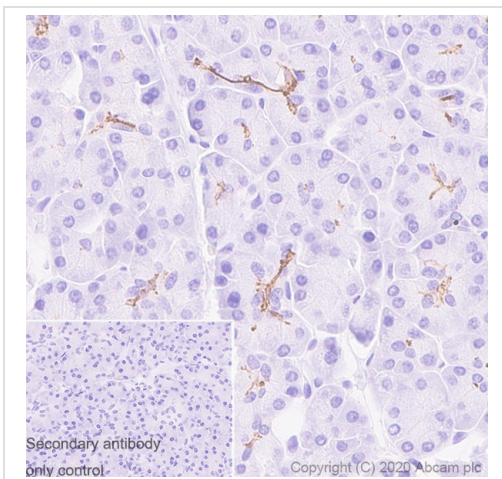


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD133 antibody [CMab-43] (ab264538)

Immunohistochemical analysis of paraffin-embedded human endometrium carcinoma tissue labeling CD133 with ab264538 at 1/2000 dilution followed by a ready to use secondary. Apical staining on ducts of human endometrium carcinoma. The section was incubated with ab264538 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD133 antibody [CMab-43] (ab264538)

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling CD133 with ab264538 at 1/2000 dilution followed by a ready to use secondary. Apical staining on ducts of human pancreas. The section was incubated with ab264538 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use.

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

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-CD133 antibody [CMab-43] (ab264538)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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