abcam

Product datasheet

Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] ab177941

リコンビナント RabMAb

★★★★★ 3 Abreviews 21 References 画像数 6

製品の概要

製品名	Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713]
製品の詳細	Rabbit monoclonal [EPR12713] to OGT / O-Linked N-Acetylglucosamine Transferase
由来種	Rabbit
特異性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, ICC/IF, IHC-P **適用なし:** IP
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: A549, HeLa, and 293T cell lysates, Mouse heart and pancreas, Rat heart. IHC-P: human breast carcinoma tissue and lung carcinoma tissue. Flow Cyt (intra): K562 cells. ICC/IF: A549 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: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR12713
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ab177941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。

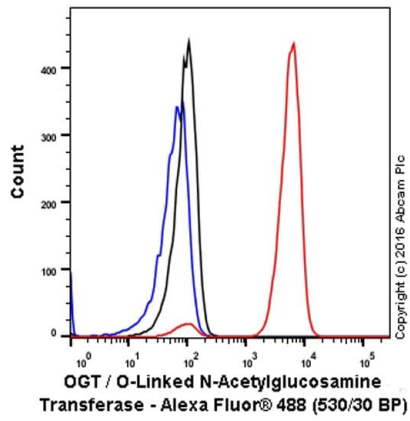
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/1000 - 1/5000. Detects a band of approximately 110 kDa (predicted molecular weight: 116 kDa).
ICC/IF		1/50 - 1/100.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.

追加情報 Is unsuitable for IP.

ターゲット情報

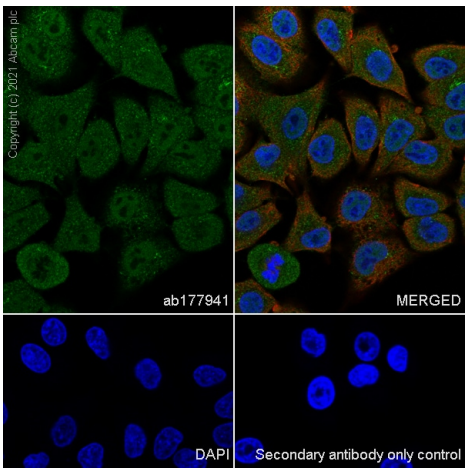
機能	Addition of nucleotide-activated sugars directly onto the polypeptide through O-glycosidic linkage with the hydroxyl of serine or threonine. Mediates the O-glycosylation of MLL5 and HCFC1. Promotes proteolytic maturation of HCFC1.
組織特異性	Highly expressed in pancreas and to a lesser extent in skeletal muscle, heart, brain and placenta. Present in trace amounts in lung and liver.
パスウェイ	Protein modification; protein glycosylation.
配列類似性	Belongs to the O-GlcNAc transferase family. Contains 13 TPR repeats.
ドメイン	The TPR repeat domain mediates recognition of protein substrates.
翻訳後修飾	Ubiquitinated, leading to its proteasomal degradation.
細胞内局在	Cytoplasm. Nucleus. Mostly in the nucleus.

画像



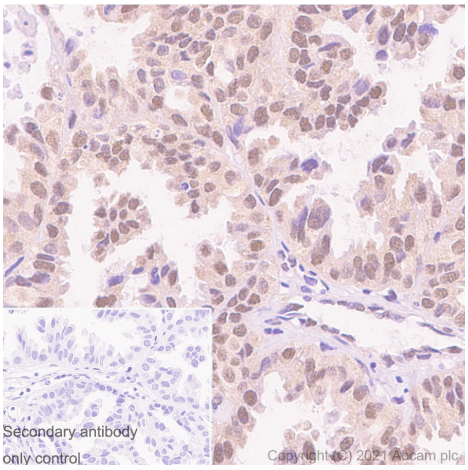
Flow Cytometry (Intracellular) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

Intracellular Flow Cytometry analysis of K-562 (Human chronic myelogenous leukemia lymphoblast) cells labeling OGT / O-Linked N-Acetylglucosamine Transferase with purified ab177941 at 1:40 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150081**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as a isotype control. Cell without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

Immunocytochemistry/ Immunofluorescence analysis of A549 (Human lung carcinoma epithelial cell) cells labeling OGT / O-Linked N-Acetylglucosamine Transferase using ab177941. The cells were fixed with 4% paraformaldehyde then permeabilized with 0.1% Triton X-100. The cells were then incubated with ab177941 at 1:100 dilution followed by a further incubation with a Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI. Cells were counterstained using **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1:200 dilution (shown in red). Secondary antibody only control: PBS instead of the primary antibody.

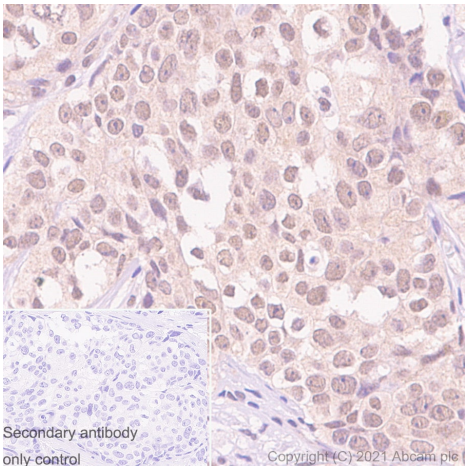


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

Immunohistochemical analysis of Paraffin-embedded sections human lung carcinoma tissue labelling OGT / O-Linked N-Acetylglucosamine Transferase with ab177941 at 1:2000 dilution (0.2 µg/ml), followed by a ready to use secondary Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Staining on human lung carcinoma tissue is observed. Counter stained with Haematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0).

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

Immunohistochemical analysis of Paraffin-embedded sections human breast carcinoma tissue labelling OGT / O-Linked N-Acetylglucosamine Transferase with ab177941 at 1:2000 dilution (0.2 µg/ml), followed by a ready to use secondary Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Staining on human breast carcinoma tissue is observed. Counter stained with Haematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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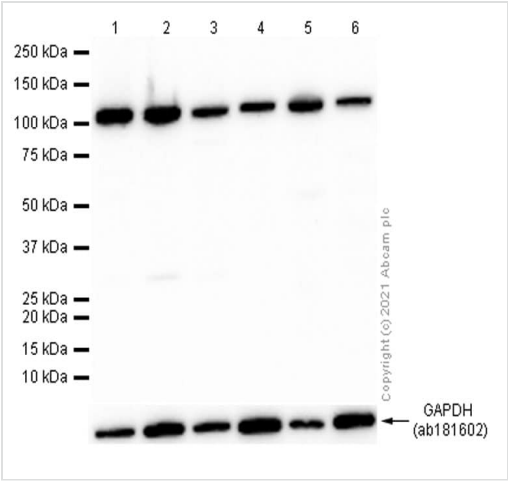


Western blot - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

All lanes : Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941) at 1/10000 dilution

Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell lysate
Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 3 : 293T (Human embryonic kidney epithelial cell) whole cell lysate
Lane 4 : Mouse heart
Lane 5 : Mouse pancreas
Lane 6 : Rat heart

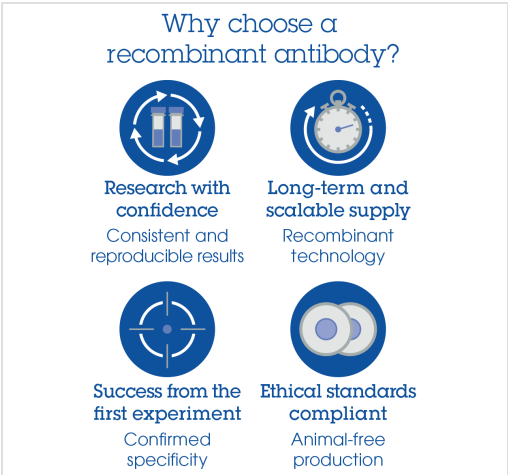
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 116 kDa
Observed band size: 110 kDa

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

ab181602 was used as GAPDH loading control.



Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

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