

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

**重组** RabMAb

★★★★★ **3 Abreviews** **21 References** **6 图像**

### 概述

产品名称	Anti-OGT / O-Linked N-Acetylglucosamine Transferase抗体[EPR12713]
描述	兔单克隆抗体[EPR12713] to OGT / O-Linked N-Acetylglucosamine Transferase
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	<b>适用于:</b> Flow Cyt (Intra), WB, ICC/IF, IHC-P <b>不适用于:</b> IP
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	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.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### 性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA

纯度	Protein A purified
克隆	单克隆
克隆编号	EPR12713
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab177941于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

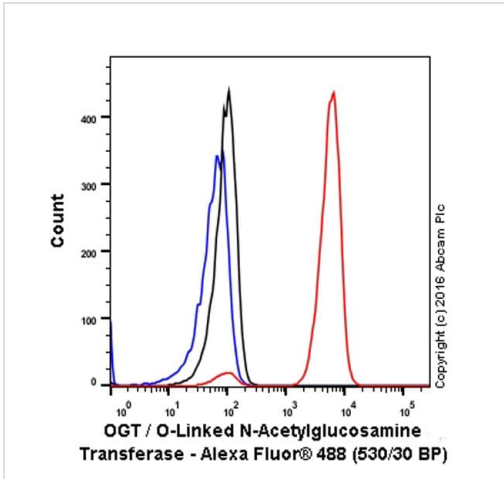
应用	Ab评论	说明
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/1000 - 1/5000. Detects a band of approximately 110 kDa (predicted molecular weight: 116 kDa).
ICC/IF		1/50 - 1/100.
IHC-P		1/50 - 1/100. Perform 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.

应用说明      Is unsuitable for IP.

## 靶标

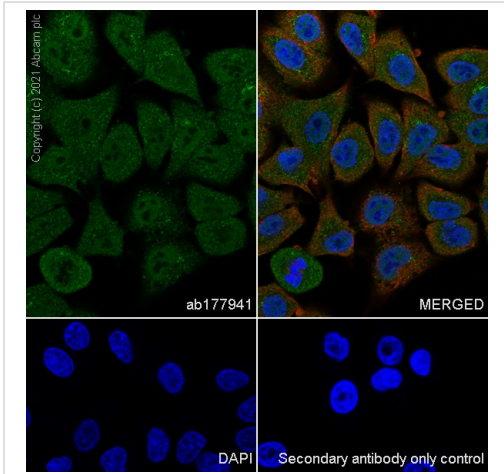
功能	Addition of nucleotide-activated sugars directly onto the polypeptide through O-glycosidic linkage with the hydroxyl of serine or threonine. Mediates the O-glycosylation of MLL5 and HCFC1. Promotes proteolytic maturation of HCFC1.
组织特异性	Highly expressed in pancreas and to a lesser extent in skeletal muscle, heart, brain and placenta. Present in trace amounts in lung and liver.
通路	Protein modification; protein glycosylation.
序列相似性	Belongs to the O-GlcNAc transferase family. Contains 13 TPR repeats.
结构域	The TPR repeat domain mediates recognition of protein substrates.
翻译后修饰	Ubiquitinated, leading to its proteasomal degradation.
细胞定位	Cytoplasm. Nucleus. Mostly in the nucleus.

## 图片



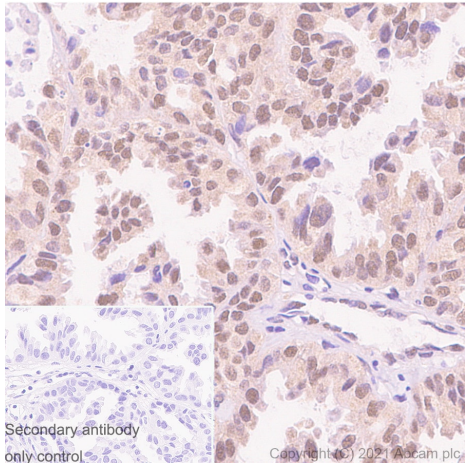
Flow Cytometry (Intracellular) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

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.



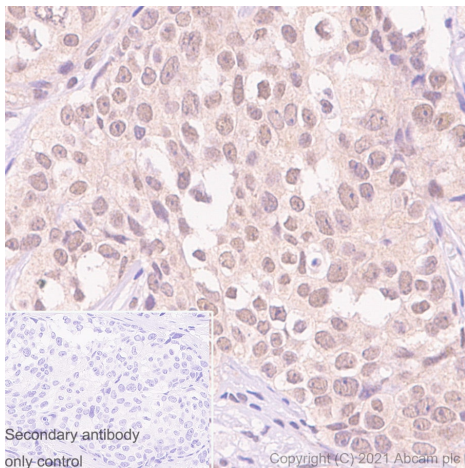
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

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.



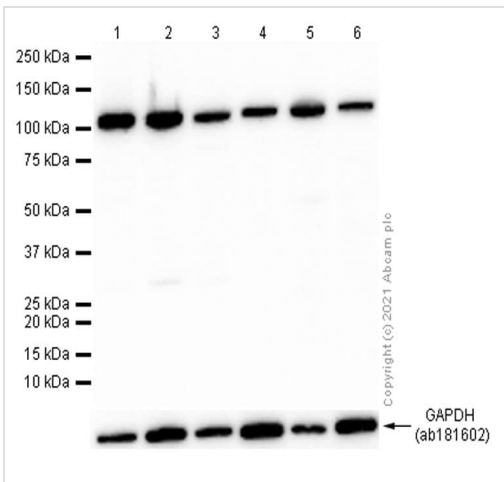
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody [EPR12713] (ab177941)

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**).

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

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



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% NFD/MTBST.

[ab181602](#) was used as GAPDH loading control.

Why choose a recombinant antibody?

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

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

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

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