

Anti-MGEA5/OGA antibody [EPR7154(B)] ab124807

敲除验证 重组 RabMAb

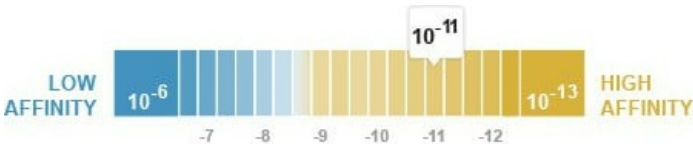
★★★★★ 1 Abreviews 22 References 8 图像

概述

产品名称	Anti-MGEA5/OGA抗体[EPR7154(B)]
描述	兔单克隆抗体[EPR7154(B)] to MGEA5/OGA
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human MGEA5/OGA. The exact sequence is proprietary. (Peptide available as ab155521)
阳性对照	WB: HEK-293T, HeLa, BxPC-3, JAR and fetal brain lysates. IHC-P: Human kidney and colon tissue. IP: HeLa cells.
常规说明	<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> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解离常数 (K _D)	K _D = 9.80 x 10 ⁻¹¹ M



[Learn more about K_D](#)

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR7154(B)
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab124807 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。

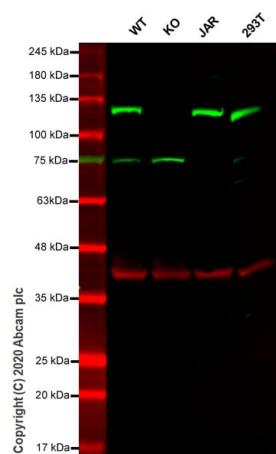
应用	Ab 评论	说明
WB	★★★★★ (1)	1/5000. Detects a band of approximately 130 kDa (predicted molecular weight: 102 kDa). For unpurified use at 1/10000 - 1/5000.
IP		1/30. For unpurified use at 1/100 - 1/500.
IHC-P		1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. For unpurified use at 1/100 - 1/250. See IHC antigen retrieval protocols.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能	Isoform 1: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc and 4-methylumbelliferone-GlcNAc as substrates but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro) (PubMed:11148210). Does not bind acetyl-CoA and does not have histone acetyltransferase activity (PubMed:24088714). Isoform 3: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc as substrate but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro), but has about six times lower specific activity than isoform 1.
组织特异性	Ubiquitous. Shows highest expression in the brain, placenta and pancreas.
序列相似性	Belongs to the glycosyl hydrolase 84 family.
翻译后修饰	Proteolytically cleaved by caspase-3 during apoptosis. The fragments interact with each other; cleavage does not decrease enzyme activity.
细胞定位	Cytoplasm and Nucleus.

图片



Western blot - Anti-MGEA5/OGA antibody
[EPR7154(B)] (ab124807)

All lanes : Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807)
at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : MGEA5 knockout HeLa cell lysate

Lane 3 : JAR cell lysate

Lane 4 : HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

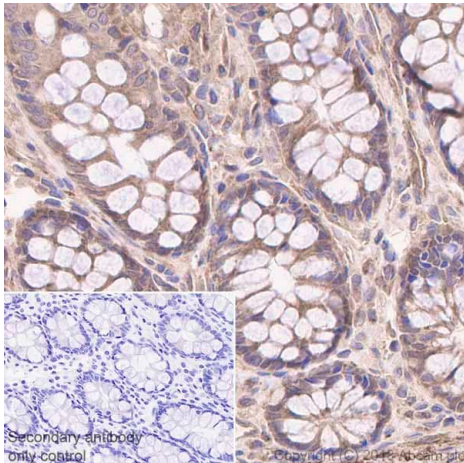
Performed under reducing conditions.

Predicted band size: 102 kDa

Observed band size: 130 kDa

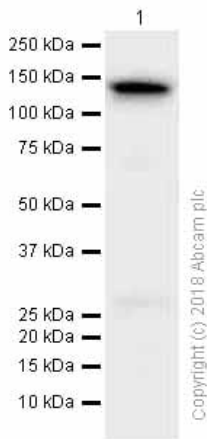
Lanes 1-4: Merged signal (red and green). Green - ab124807 observed at 130 kDa. Red - loading control, [ab8245](#) observed at 37 kDa.

ab124807 Anti-MGEA5/OGA antibody [EPR7154(B)] was shown to specifically react with MGEA5/OGA in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265821](#) (knockout cell lysate [ab257263](#)) was used. Wild-type and MGEA5/OGA knockout samples were subjected to SDS-PAGE. ab124807 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue sections labeling MGEA5/OGA with purified ab124807 at 1:50 dilution (12.56 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807)

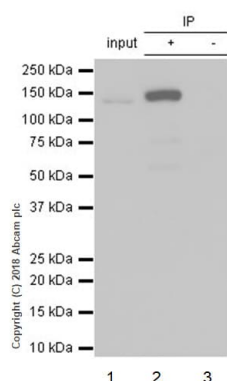
Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807) at 1/5000 dilution (Purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates 20ug at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 102 kDa

Observed band size: 130 kDa



Immunoprecipitation - Anti-MGEA5/OGA antibody
[EPR7154(B)] (ab124807)

ab124807 (purified) at 1:30 dilution (2µg) immunoprecipitating MGEA5/OGA in HeLa whole cell lysate.

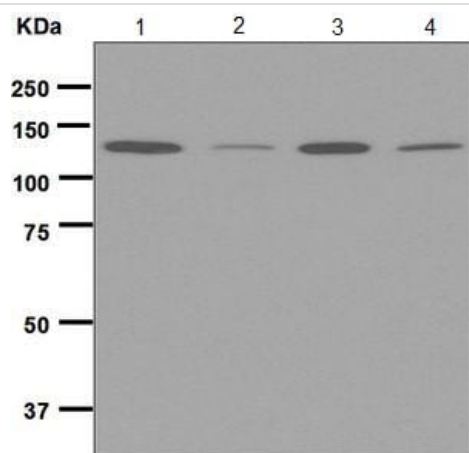
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab124807 & HeLa whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab124807 in HeLa whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



Western blot - Anti-MGEA5/OGA antibody
[EPR7154(B)] (ab124807)

All lanes : Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807) at 1/10000 dilution

Lane 1 : HeLa lysate

Lane 2 : BxPC-3 lysate

Lane 3 : JAR lysate

Lane 4 : Fetal brain lysate

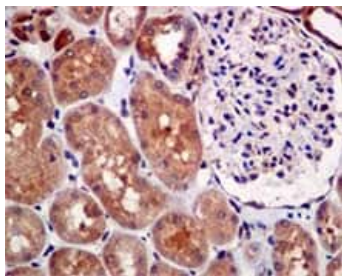
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 102 kDa

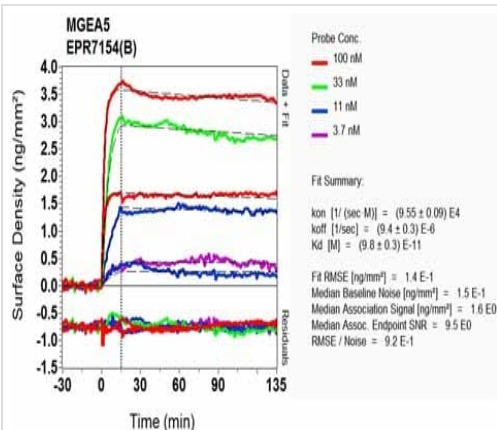
Observed band size: 130 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807)

ab124807, at 1/100 dilution, staining MGEA5/OGA in paraffin-embedded Human kidney tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



OL-RD Scanning - Anti-MGEA5/OGA antibody [EPR7154(B)] (ab124807)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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

Anti-MGEA5/OGA antibody [EPR7154(B)]
(ab124807)

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