

Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] ab53449

重组 RabMAb

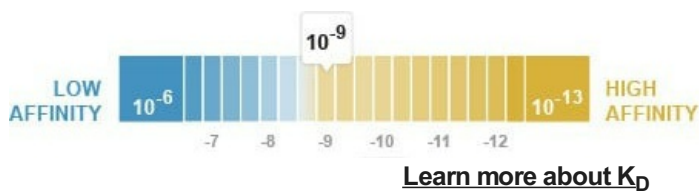
★★★★★ [1 Abreviews](#) [14 References](#) [7 图像](#)

概述

产品名称	生物素Anti-Polyethylene glycol抗体[PEG-B-47b]
描述	生物素兔单克隆抗体[PEG-B-47b] to Polyethylene glycol
宿主	Rabbit
偶联物	Biotin
经测试应用	适用于: IHC-P, Sandwich ELISA, WB, ELISA
种属反应性	与反应: Species independent
免疫原	Chemical/ Small Molecule. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: BSA-PEG5K.
常规说明	<p>The smallest PEG molecule which our Polyethylene glycol antibody (ab53449) can detect is PEG750. Based on customer feedback, the largest PEG molecule detected is PEG 40K. Additionally, ab53449 detects both linear and branched PEG based on our in-house ELISA testing.</p> <p>Tween 20 usage: Tween 20 is a detergent that can interfere with ELISA and potentially other applications (often used in antibody dilution buffers, such as TBST) when using anti-PEG products. This is also the same case for other polyoxyethylene detergents. Therefore, it is recommended to avoid Tween 20 and other polyoxyethylene detergents in blocking buffer and antibody dilution buffer when performing ELISA using anti-PEG products.</p> <p><u>Learn more about PEG RabMAb® primary antibodies and kit - PEG RabMAb Product Portal Page</u></p> <p>If you have any questions on our PEG products - please visit our <u>Polyethylene glycol (PEG) FAQs</u> page.</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 <u>see here</u>.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb® patents</u>.</p>

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 or -80°C. Avoid freeze / thaw cycle.
解离常数 (K_D)	$K_D = 2.41 \times 10^{-9}$ M



存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	PEG-B-47b
同种型	IgG

应用

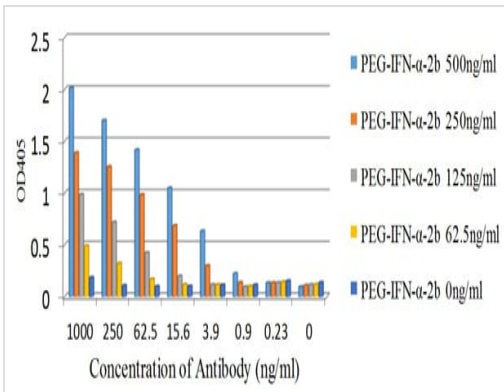
The Abpromise guarantee **Abpromise™** 承诺保证使用 ab53449 于以下的经测试应用

“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
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For unpurified use at 1/50 - 1/100. Images of positive IHC with this monoclonal antibody, clone PEG-B-47b, are on the ab51257 datasheet.
Sandwich ELISA		Use at an assay dependent concentration.
WB		1/50000. Predicted molecular weight: 2 kDa. For unpurified use at 1/5000 - 1/20000.
ELISA	★★★★★ (1)	Use a concentration of 1 µg/ml. Coating plates for ELISA: 0 to 500 ng/ml. For unpurified use at 0.5µg/ml, coating plates for ELISA: 5 to 10 ug/ml.

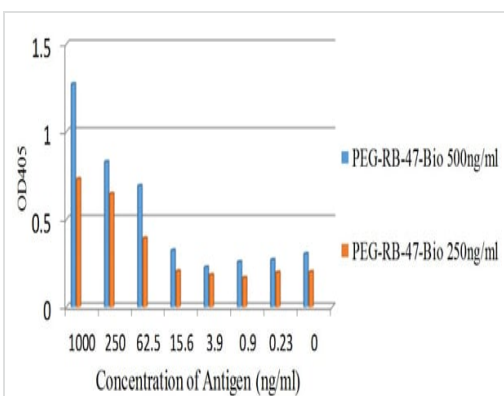
靶标

图片



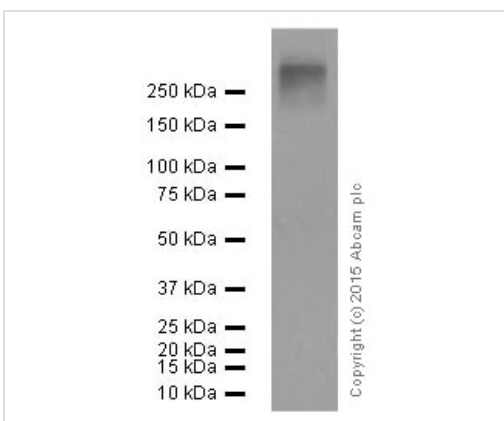
ELISA - Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449)

Direct ELISA antigen dose-response curve using purified ab53449. Antigen concentration of 0-500 ng/mL. A peroxidase-conjugated streptavidin (1/1000) was used. Biotin conjugate (ab53449) available for this clone.



Sandwich ELISA - Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449)

Sandwich ELISA antigen dose-response curve using purified ab53449. Capture antibody - Mouse anti-IFN alpha 2b (4000 ng/ml). Antigens - PEG-IFN alpha 2b (0-1000 ng/ml). Detection - ab53449 (500 ng) anti-Polyethylene glycol antibody [PEG-B-47b] (Biotin) followed by peroxidase-conjugated streptavidin (1/1000).



Western blot - Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449)

Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449) at 1/50000 dilution (purified) + BSA-PEG5K at 0.02 µg

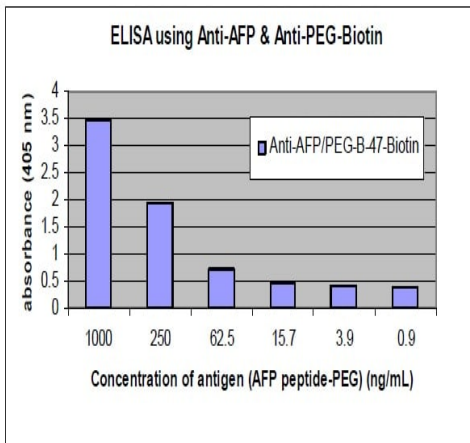
Secondary

Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 2 kDa

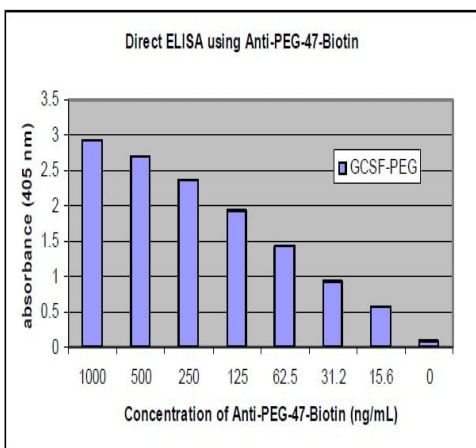
Observed band size: 280 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



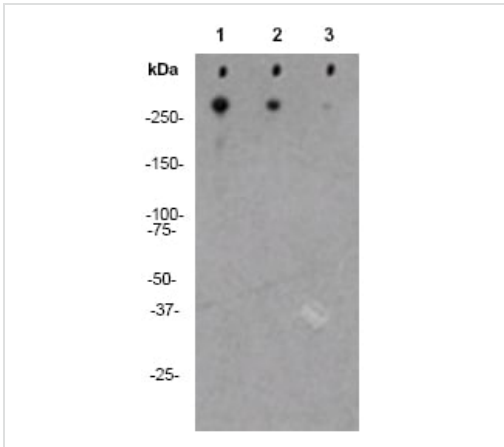
ELISA - Biotin Anti-Polyethylene glycol antibody
[PEG-B-47b] (ab53449)

ELISA assay using 5 µg/mL Anti-AFP RabMAb as the capture antibody and 0.5 µg/mL Anti-PEG-47-Biotin RabMAb (unpurified ab53449) as the detection antibody. HRP-avidin (1/3000) used for anti-PEG-47 detection. This ELISA assay could detect YCA1017 peptide-PEG antigen at a concentration as low as 0.9 ng/mL.



ELISA - Biotin Anti-Polyethylene glycol antibody
[PEG-B-47b] (ab53449)

Direct ELISA assay using 63 ng/mL of antigen (GCSF-PEG) to coat the plate. HRP-avidin (1/3000) was used for the detection of varying amounts of anti-PEG-47-Biotin (unpurified ab53449).



Western blot - Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449)

Lane 1 : Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449) at 1/5000 dilution (unpurified)

Lane 2 : Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449) at 1/10000 dilution (unpurified)

Lane 3 : Biotin Anti-Polyethylene glycol antibody [PEG-B-47b] (ab53449) at 1/20000 dilution (unpurified)

All lanes : BSA-PEG

Predicted band size: 2 kDa

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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