abcam

Product datasheet

Anti-Insulin Receptor beta antibody [C18C4] ab69508

2 Abreviews 35 References 3 图像

概述

产品名称	Anti-Insulin Receptor beta抗体[C18C4]
描述	**小鼠单克隆抗体**[C18C4] to Insulin Receptor beta
宿主	Mouse
经测试应用	**适用于:** Flow Cyt, IHC-P, WB
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment corresponding to Human Insulin Receptor beta.
阳性对照	MCF-7, Rat-2 and L-929 cells
常规说明	This product was changed from ascites to tissue culture supernatant on 22nd May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
纯度	Protein G purified
纯化说明	Purified from TCS.
克隆	单克隆
克隆编号	C18C4
同种型	IgG1

应用

The Abpromise guarantee Abpromise™承诺保证使用ab69508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。

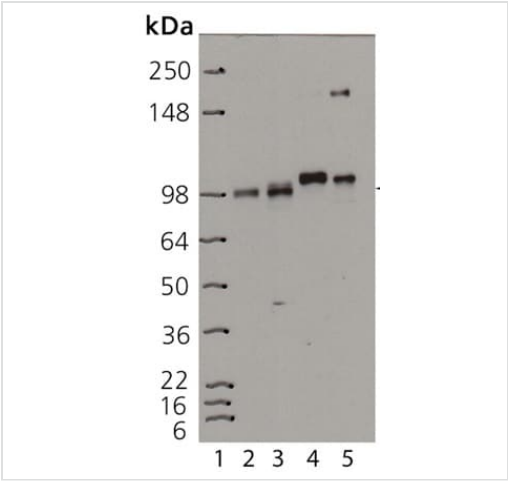
应用	Ab评论	说明
Flow Cyt	★★★☆☆ (1)	Use at an assay dependent concentration. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★☆☆ (1)	Use at an assay dependent concentration. Detects a band of approximately 95 kDa (predicted molecular weight: 95 kDa). (developed by ECL)

靶标

相关性 Insulin receptor mediates the biological activities of insulin by regulating multiple signaling pathways through activation of a series of phosphorylation cascades. The human insulin receptor is a heterotetrameric membrane glycoprotein consisting of disulfide-linked subunits in a ß-a-a-ß configuration. The ß-subunit (95kDa) possesses a single transmembrane domain with tyrosine kinase acivity, whereas the a-subunit (135kDa) is completely extracellular. The alpha subunits each contain insulin binding sites and are entirely extracellular in localization. The beta subunits each possess an extracellular domain, a single transmembrane domain, and a cytoplasmic tyrosine kinase domain. Binding of insulin to the alpha subunits induces a conformation change in the receptor which activates the kinase domain, stimulating tyrosine autophosphorylation of the receptor and tyrosine phosphorylation of at least five different insulin receptor substrates designated IRS-1-4, and Shc.

细胞定位 Membrane; Single pass type I membrane protein.

图片



Western blot - Anti-Insulin Receptor beta antibody [C18C4] (ab69508)

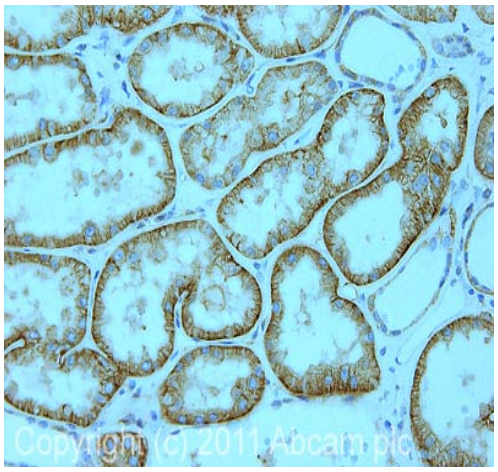
All lanes : Anti-Insulin Receptor beta antibody [C18C4] (ab69508) at 1/1000 dilution

Lane 2 : HeLa lysate (Human epithelial cell line from cervix adenocarcinoma)
Lane 3 : MCF-7 lysate (Human breast adenocarcinoma cell line)
Lane 4 : PC-12 lysate (Rat adrenal gland pheochromocytoma cell line)
Lane 5 : 3T3-L1 lysate (Mouse embryonic fibroblast cell line)

Developed using the ECL technique.

Predicted band size: 95 kDa
Observed band size: 98 kDa

This image was generated using the ascites version of the product.

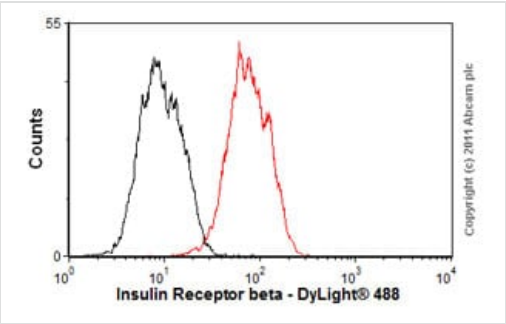


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Insulin Receptor beta antibody [C18C4] (ab69508)

IHC image of ab69508 staining in human normal kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond^{TM} system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab69508, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

This image was generated using the ascites version of the product.



Flow Cytometry - Anti-Insulin Receptor beta antibody [C18C4] (ab69508)

Overlay histogram showing HepG2 cells stained with ab69508 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab69508, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

This image was generated using the ascites version of the product.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors