

Product datasheet

Anti-IRAK antibody ab55316

敲除 验证

★★★★☆ 1 Abreviews 4 图像

概述

产品名称	Anti-IRAK抗体
描述	小鼠单克隆抗体to IRAK
宿主	Mouse
经测试应用	适用于: WB, IHC-P, ICC/IF
种属反应性	与反应: Human
免疫原	Recombinant fragment, corresponding to amino acids 530-693 of Human IRAK

阳性对照

[购买相配的WB阳性对照
Recombinant Human IRAK protein >](#)

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None PBS, pH 7.2
纯度	Protein G purified
克隆	单克隆
同种型	IgG2a
轻链类型	kappa

应用

Our [Abpromise guarantee](#) covers the use of **ab55316** in the following tested applications.

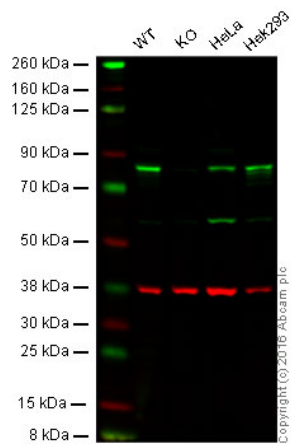
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB	★★★★☆	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 77 kDa.
IHC-P		Use a concentration of 3 µg/ml.
ICC/IF		Use a concentration of 10 µg/ml.

靶标

功能	Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Isoform 1 binds rapidly but is then degraded allowing isoform 2 to mediate a slower, more sustained response to the cytokine. Isoform 2 is inactive suggesting that the kinase activity of this enzyme is not required for IL-1 signaling. Once phosphorylated, IRAK1 recruits the adapter protein PELL1.
组织特异性	Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.
序列相似性	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 protein kinase domain.
翻译后修饰	Autophosphorylated or is transphosphorylated by IRAK4 following recruitment to the IL-1RI. In the case of isoform 1, this is linked to ubiquitination and degradation. Polyubiquitinated; after cell stimulation with IL-1-beta. Polyubiquitination occurs with polyubiquitin chains linked through 'Lys-63'.

图片



Western blot - Anti-IRAK antibody (ab55316)

Lane 1: Wild type HAP1 whole cell lysate (20 μ g)

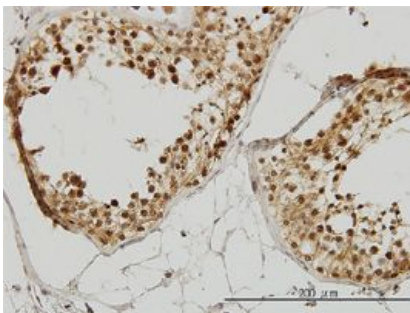
Lane 2: IRAK1 knockout HAP1 whole cell lysate (20 μ g)

Lane 3: HeLa whole cell lysate (20 μ g)

Lane 4: Hek293 whole cell lysate (20 μ g)

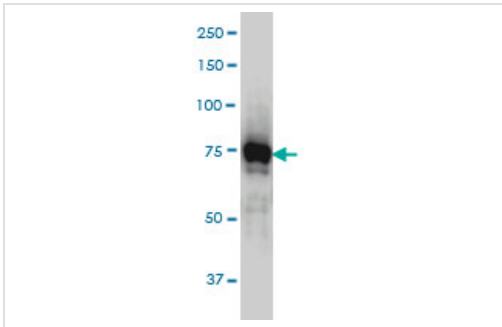
Lanes 1 - 4: Merged signal (red and green). Green - ab55316 observed at 85 kDa. Red - loading control, [ab181602](#), observed at 37 kDa.

ab55316 was shown to specifically react with IRAK1 when IRAK1 knockout samples were used. Wild-type and IRAK1 knockout samples were subjected to SDS-PAGE. Ab55316 and [ab181602](#) (Rabbit anti GAPDH loading control) were incubated overnight at 4°C at 1 μ g/ml and 1/10000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) [ab216772](#) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) [ab216777](#) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



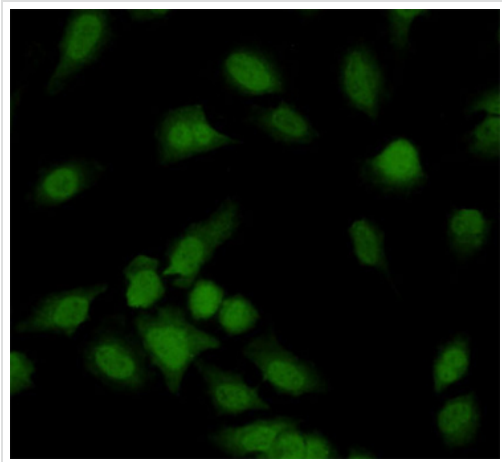
IHC-P - IRAK antibody (ab55316)

IRAK antibody (ab55316) used in immunohistochemistry at 3 μ g/ml on formalin fixed and paraffin embedded human testis.



Western blot - IRAK antibody (ab55316)

IRAK antibody (ab55316) at 1ug/lane + K-562 cell lysate at 25ug/lane.



Immunocytochemistry/ Immunofluorescence - IRAK antibody (ab55316)

ab55316 at 10 ug/ml staining IRAK in human Hella cells by Immunocytochemistry/ Immunofluorescence.

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