abcam

Product datasheet

Anti-Retinoic Acid Receptor beta antibody ab5792

★☆☆☆☆☆ **1 Abreviews**   **3 图像**

概述

产品名称	Anti-Retinoic Acid Receptor beta抗体
描述	兔多克隆抗体to Retinoic Acid Receptor beta
宿主	Rabbit
特异性	This antibody shows slight cross-reactivity to RAR alpha but does not detect RAR gamma.
经测试应用	**适用于:** ICC/IF, WB
种属反应性	**与反应:** Mouse, Human
免疫原	Synthetic peptide corresponding to Mouse Retinoic Acid Receptor beta aa 429-448. Sequence:

PSUSPSSVENSGVSQSPLLQ

(Peptide available as **ab5897**)

📄 **Run BLAST with**   📄 **Run BLAST with**

阳性对照	WB: SH-SY5Y cell extract ; HEK-293 ICC/IF: SH-SY5Y
常规说明	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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituent: 99% PBS
纯度	Whole antiserum
克隆	多克隆

1

同种型	IgG

应用

The Abpromise guarantee   <u>Abpromise™</u>承诺保证使用ab5792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
ICC/IF		1/100.
WB		1/1000. Detects a band of approximately 52 kDa (predicted molecular weight: 53 kDa).

靶标

功能	Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence or presence of hormone ligand, acts mainly as an activator of gene expression due to weak binding to corepressors. In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function.
疾病相关	Microphthalmia, syndromic, 12
序列相似性	Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.
结构域	Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.
细胞定位	Cytoplasm and Nucleus.

图片
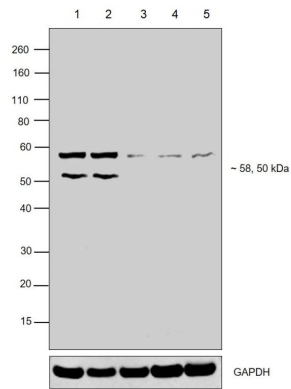
Western blot - Anti-Retinoic Acid Receptor beta antibody (ab5792)

All lanes : Anti-Retinoic Acid Receptor beta antibody (ab5792) at 1 µg/ml

Lane 1 : SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

Lane 2 : HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 3 : PANC-1 (Human pancreatic epithelial cancinoma cell line) whole cell lysate

Lane 4 : OVCAR-3 (Human ovary adenocarcinoma cell line) whole cell lysate

Lane 5 : BeWo (human placenta choriocarcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP at 1/4000 dilution

Predicted band size: 53 kDa

Additional bands at: ~58.50 kDa. We are unsure as to the identity of these extra bands.

Detection: chemiluminescence

Western blot demonstrating antibody specificity by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. The expression was observed in SH-SY5Y and HEK-293 and not seen in PANC-1, OVCAR-3 and BeWo using ab5792.
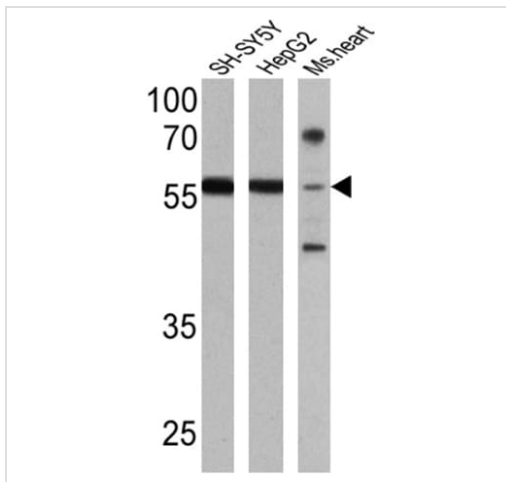
Western blot - Anti-Retinoic Acid Receptor beta antibody (ab5792)

All lanes : Anti-Retinoic Acid Receptor beta antibody (ab5792) at 1/1000 dilution
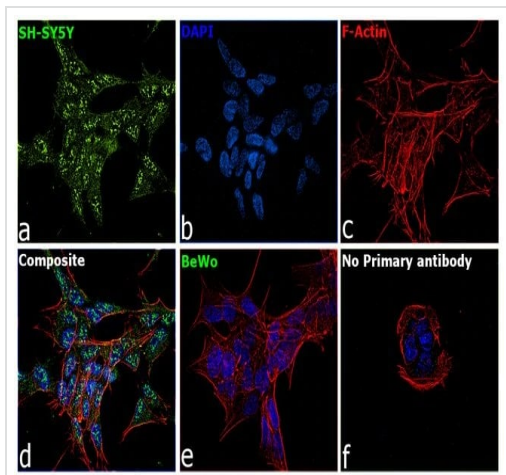
Lane 1 : SH-SY5Y cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : Mouse heart cell lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 53 kDa

Observed band size: 58 kDa

Immunocytochemistry/ Immunofluorescence - Anti-Retinoic Acid Receptor beta antibody (ab5792)

Immunofluorescent analysis of SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate cells on 70% confluent log phase labeling Retinoic Acid Receptor beta. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with ab5792 at 1/100 dilution in 0.1% BSA and incubated overnight at 4°C and then labeled with Goat anti-Rabbit IgG (H+L) secondary antibody, Alexa Fluor® 488 conjugate at 1/2000 dilution for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (1/300 dilution). Panel d is a merged image showing nuclear and cytoplasmic localization. Panel e represents BeWo (human placenta choriocarcinoma cell line) having no expression of Retinoic Acid Receptor beta. The images were captured at 60X magnification.

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

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