

# Anti-Retinoic Acid Receptor beta antibody [EPR2017] ab124701

Recombinant RabMAb

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### Overview

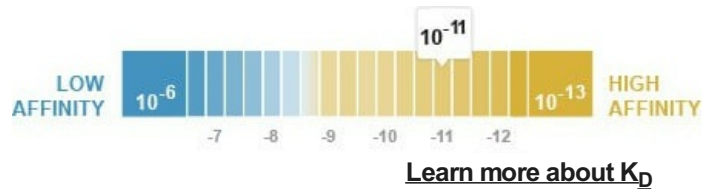
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<b>Product name</b>	Anti-Retinoic Acid Receptor beta antibody [EPR2017]
<b>Description</b>	Rabbit monoclonal [EPR2017] to Retinoic Acid Receptor beta
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Daudi, MCF7, MDA-MB-435, and U-87 MG lysates. IHC-P: human bladder carcinoma and kidney tissues. ICC/IF: HCT 116 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.

**Dissociation constant (K<sub>D</sub>)**K<sub>D</sub> = 1.13 x 10<sup>-11</sup> M**Storage buffer**

pH: 7.20  
 Preservative: 0.01% Sodium azide  
 Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

**Purity**

Protein A purified

**Clonality**

Monoclonal

**Clone number**

EPR2017

**Isotype**

IgG

**Applications****The Abpromise guarantee**Our **Abpromise guarantee** covers the use of ab124701 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 50 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.

**Application notes**

Is unsuitable for Flow Cyt or IP.

**Target****Function**

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.

**Involvement in disease**

Microphthalmia, syndromic, 12

**Sequence similarities**

Belongs to the nuclear hormone receptor family. NR1 subfamily.  
 Contains 1 nuclear receptor DNA-binding domain.

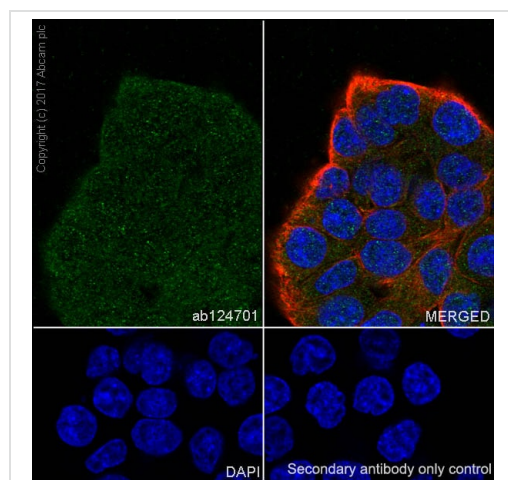
**Domain**

Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

**Cellular localization**

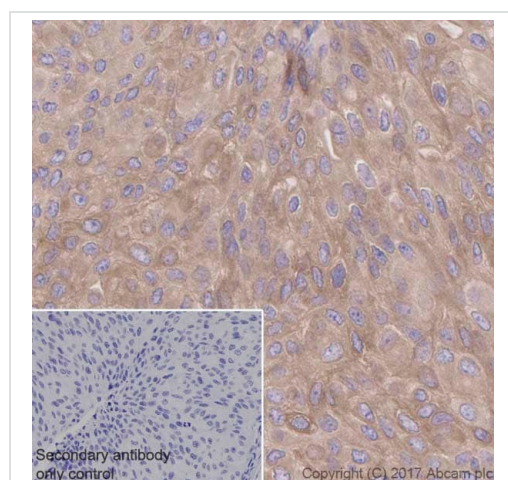
Cytoplasm and Nucleus.

## Images



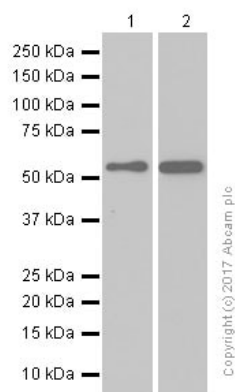
Immunocytochemistry/ Immunofluorescence - Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

Immunocytochemistry/ Immunofluorescence analysis of HCT 116 (Human colorectal carcinoma epithelial cell) cells labeling Retinoic Acid Receptor beta with Purified ab124701 at 1:100 dilution (10 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bladder carcinoma tissue sections labeling Retinoic Acid Receptor beta with Purified ab124701 at 1:100 dilution (10.3 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Purified)ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

**All lanes :** Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701) at 1/2000 dilution (Purified)

**Lane 1 :** Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysates

**Lane 2 :** U-87 MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysates

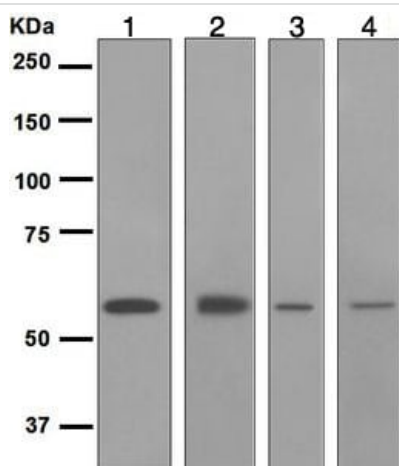
Lysates/proteins at 15 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 50 kDa

**Observed band size:** 55 kDa



Western blot - Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

**All lanes :** Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701) at 1/1000 dilution

**Lane 1 :** MCF7 cell lysates

**Lane 2 :** MDA-MB-435 cell lysates

**Lane 3 :** Daudi cell lysates

**Lane 4 :** U-87 MG cell lysates

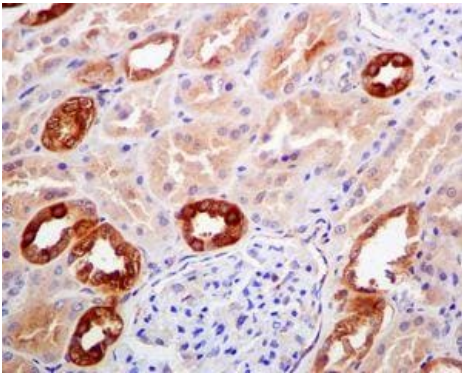
Lysates/proteins at 10 µg per lane.

#### Secondary

**Lane 1 :** Goat anti-Rabbit HRP at 1/20000 dilution

**Lanes 2-4 :** Goat anti-Rabbit HRP at 1/2000 dilution

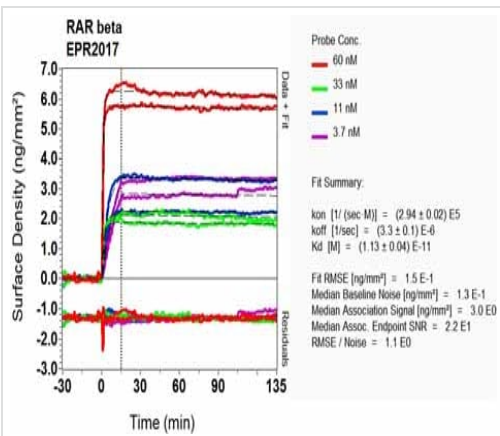
**Predicted band size:** 50 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

ab124701 at 1/100 dilution staining Retinoic Acid Receptor beta in paraffin-embedded Human kidney tissue by Immunohistochemistry.

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



OI-RD Scanning - Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

Equilibrium dissociation 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-Retinoic Acid Receptor beta antibody [EPR2017] (ab124701)

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