

Product datasheet

HRP Anti-Retinoic Acid Receptor beta antibody [EPR2017] α b198557

Recombinant RabMAb

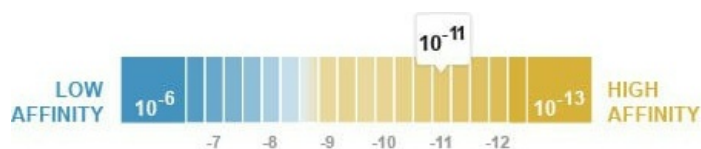
[1 References](#) [3 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | HRP Anti-Retinoic Acid Receptor beta antibody [EPR2017] |
| Description | HRP Rabbit monoclonal [EPR2017] to Retinoic Acid Receptor beta |
| Host species | Rabbit |
| Conjugation | HRP |
| Tested applications | Suitable for: WB, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: MCF7, Daudi and U-87 MG whole cell lysates. IHC-P: FFPE human normal kidney tissue sections. |
| General notes | <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 see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

Properties

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|--|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store in the Dark. |
| Dissociation constant (K_D) | K _D = 1.13 x 10 ⁻¹¹ M |



[Learn more about K_D](#)

| | |
|-----------------------|--|
| Storage buffer | pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR2017 |
| Isotype | IgG |

Applications

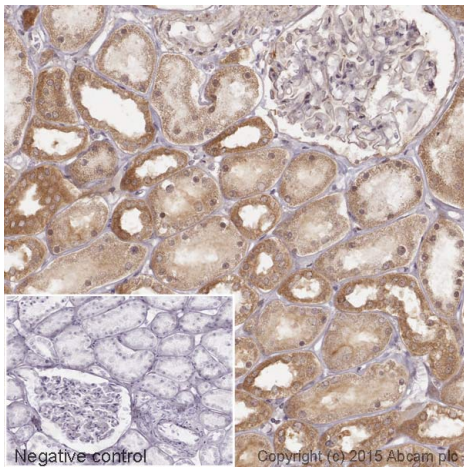
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab198557 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|--------------|-----------|--|
| WB | | 1/5000. Detects a band of approximately 55 kDa (predicted molecular weight: 50 kDa). |
| IHC-P | | 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab198557)

IHC image of Retinoic Acid Receptor beta staining in a section of formalin-fixed paraffin-embedded human normal kidney*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab198557 at 1/50 dilution. DAB was used as the chromogen ([ab103723](#)), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

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.

**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



Western blot - HRP Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab198557)

All lanes : HRP Anti-Retinoic Acid Receptor beta antibody [EPR2017] (ab198557) at 1/5000 dilution

Lane 1 : MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lane 2 : Daudi (Human Burkitt's lymphoma cell line) Whole Cell Lysate

Lane 3 : U-87 MG (Human glioblastoma astrocytoma) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 50 kDa

Observed band size: 55 kDa

Exposure time: 3 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab198557 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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

HRP Anti-Retinoic Acid Receptor beta antibody
[EPR2017] (ab198557)

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