abcam

Product datasheet

Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal ab187159

KO VALIDATED Recombinant RabMAb

2 References 4 Images

Overview

Product name	Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal
Description	Rabbit monoclonal [EPR2020(N)] to Retinoic Acid Receptor gamma - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	NCCIT, NTERA2/D1 and HeLa cell lysates; HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2020(N)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab187159 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 - 1/2000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).
ICC/IF		1/100 - 1/250.

Target

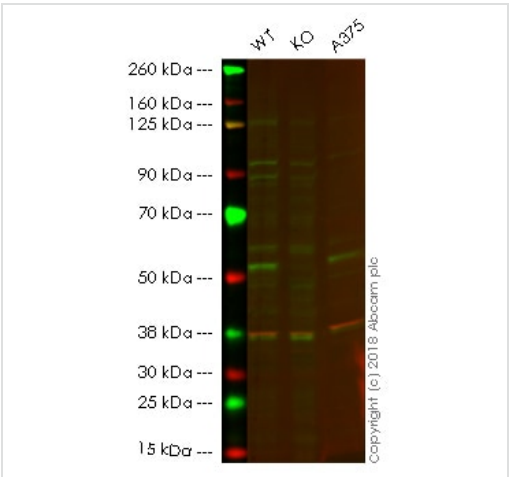
Function Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, acts mainly as an activator of gene expression due to weak binding to corepressors. Required for limb bud development. In concert with RARA or RARB, required for skeletal growth, matrix homeostasis and growth plate function.

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 Nucleus.

Images



Western blot - Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal (ab187159)

All lanes : Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal (ab187159) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : RARG (Acid Receptor gamma) knockout HAP1 whole cell lysate

Lane 3 : A375 whole cell lysate

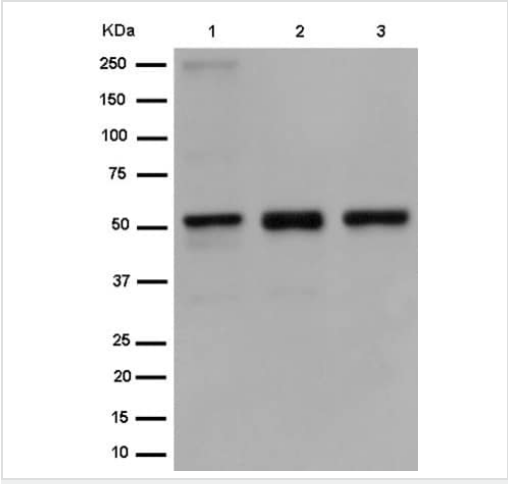
Lysates/proteins at 30 µg per lane.

Predicted band size: 50 kDa

Observed band size: 50 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab187159 observed at 50 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab187159 was shown to recognize Acid Receptor gamma in wild-type HAP1 cells as signal was lost at the expected MW in RARG (Acid Receptor gamma) knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and RARG (Acid Receptor gamma) knockout samples were subjected to SDS-PAGE. Ab187159 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal (ab187159)

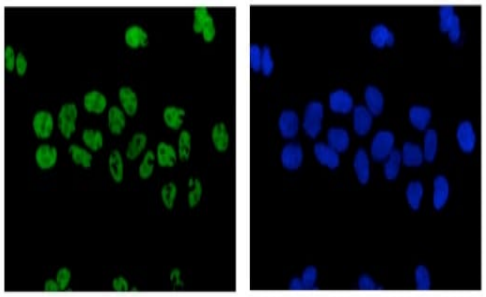
All lanes : Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal (ab187159) at 1/1000 dilution

Lane 1 : NCCIT cell lysate
Lane 2 : NTERA2/D1 cell lysate
Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal (ab187159)

Immunofluorescent analysis of HeLa cells labeling Retinoic Acid Receptor gamma with ab187159 at 1/250 and DAPI staining (blue).

Anti-Retinoic Acid Receptor gamma antibody [EPR2020(N)] - N-terminal (ab187159)

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