

### KD-Validated Anti-Retinoic Acid Receptor beta Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1647

#### Specification

# KD-Validated Anti-Retinoic Acid Receptor beta Rabbit Monoclonal Antibody - Product Information

Application Primary Accession Reactivity Clonality Isotype Calculated MW Gene Name Aliases	WB, FC, ICC <u>P10826</u> Human Monoclonal Rabbit IgG Predicted, 50 kDa ; Observed , 55 kDa KDa RARB Retinoic Acid Receptor Beta; RAR-Beta; NR1B2; HAP; RARbeta; RRB2; Nuclear Becentor Subfamily 1 Group B Member 2;			
	HBV-Activated Protein; RAR-Epsilon; Retinoic Acid Receptor, Beta Polypeptide;			
	Retinoic Acid Receptor, Beta; RARbeta1; MCOPS12			
Immunogen	A synthesized peptide derived from human Retinoic Acid Receptor beta			

# KD-Validated Anti-Retinoic Acid Receptor beta Rabbit Monoclonal Antibody - Additional Information

Gene ID 5915 Other Names Retinoic acid receptor beta, RAR-beta, HBV-activated protein, Nuclear receptor subfamily 1 group B member 2, RAR-epsilon, RARB, HAP, NR1B2

## KD-Validated Anti-Retinoic Acid Receptor beta Rabbit Monoclonal Antibody - Protein Information

Name RARB

Synonyms HAP, NR1B2

#### 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 (PubMed:<a href="http://www.uniprot.org/citations/12554770" target="\_blank">12554770</a>). The RXRA/RARB heterodimer can act as a repressor on the DR1



element and as an activator on the DR5 element (PubMed:<a

href="http://www.uniprot.org/citations/29021580" target="\_blank">29021580</a>). In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function (By similarity).

### **Cellular Location**

Nucleus. Cytoplasm [Isoform Beta-2]: Nucleus.

#### **Tissue Location**

Expressed in aortic endothelial cells (at protein level).

#### KD-Validated Anti-Retinoic Acid Receptor beta Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### KD-Validated Anti-Retinoic Acid Receptor beta Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Retinoic acid receptor beta antibody (Cat#AGI1647). Total cell lysates ( $30 \mu g$ ) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Retinoic acid receptor beta antibody (Cat#AGI1647, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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150 -			150 -			tech
75 -		<b>←</b> Hsp90 α	75 <b>—</b>			n Bioi
50 <b>—</b>			50 <b>—</b>	-	-	← Retinoic acid receptor
37 <b>—</b>			37 <b>—</b>			©2024
25 <b>—</b>			25 <b>—</b>			right



Western blotting analysis using anti-Retinoic Acid Receptor beta antibody (Cat#AGI1647). Retinoic Acid Receptor beta expression in wild type (WT) and Retinoic Acid Receptor beta shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-Retinoic Acid Receptor beta antibody (Cat#AGI1647, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Retinoic acid receptor beta expression in HeLa cells using Retinoic acid receptor beta antibody (Cat#AGI1647, 1:2,000). Green, isotype control; red, Retinoic acid receptor beta.



Immunocytochemical staining of HeLa cells with anti-Retinoic acid receptor beta antibody (Cat#AGI1647, 1:1,000). Nuclei were stained blue with DAPI; Retinoic acid receptor beta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.