

Product Name: KD-Validated Retinoic Acid Receptor Beta Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00953

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 50.5kDa

Antigen Information

Gene Name	RARB
Alternative Names	Retinoic Acid Receptor Beta; RAR-Beta; NR1B2; HAP; RARbeta; RRB2; Nuclear Receptor Subfamily 1 Group B Member 2; HBV-Activated Protein; RAR-Epsilon; Retinoic Acid Receptor, Beta Polypeptide; Hepatitis B Virus Activated Protein; Retinoic Acid Receptor, Beta; RARbeta1; MCOPS12
Gene ID	5915.0
SwissProt ID	P10826
Immunogen	A synthesized peptide derived from human Retinoic Acid Receptor beta

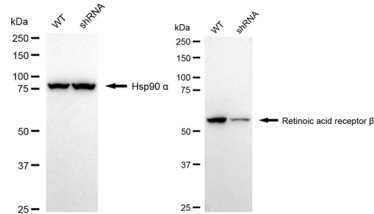
Background

This gene encodes retinoic acid receptor beta, a member of the thyroid-steroid hormone receptor superfamily of nuclear transcriptional regulators. This receptor localizes to the cytoplasm and to subnuclear compartments. It binds retinoic acid, the biologically active form of vitamin A which mediates cellular signalling in embryonic morphogenesis, cell growth and differentiation. It is thought that this protein limits growth of many cell types by regulating gene expression. The gene was first identified in a hepatocellular carcinoma where it flanks a hepatitis B virus integration site. Alternate promoter usage and differential splicing result in multiple transcript variants. [provided by RefSeq, Mar 2014]

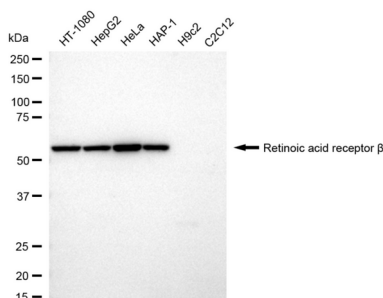
Research Area

Epigenetics and Nuclear Signaling, Signal Transduction, Cancer

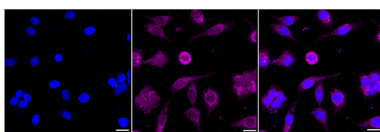
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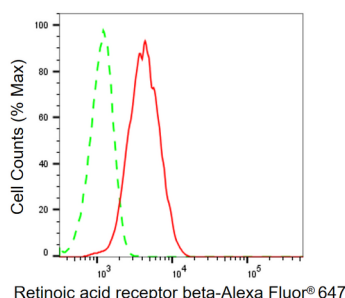
Western blotting analysis using Retinoic Acid Receptor beta antibody (KVA00953). Retinoic Acid Receptor beta expression in wild type (WT) and Retinoic Acid Receptor beta shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Retinoic Acid Receptor beta antibody (KVA00953, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Retinoic acid receptor beta antibody (KVA00953). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Retinoic acid receptor beta antibody (KVA00953, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Retinoic acid receptor beta antibody (KVA00953, 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.



Flow cytometric analysis of Retinoic acid receptor beta expression in HeLa cells using Retinoic acid receptor beta antibody (KVA00953, 1:2,000). Green, isotype control; red, Retinoic acid receptor beta.