Product Name: Retinoic Acid Receptor alpha (12V14)

Rabbit Monoclonal Antibody

Catalog #: AMRe17035



Summary

Production Name Retinoic Acid Receptor alpha (12V14) Rabbit Monoclonal Antibody

Description Rabbit Monoclonal Antibody

HostRabbitApplicationWB,ELISAReactivityHuman,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name RARA

Alternative Names RARalpha1; NR1B1; RAR-alpha; Retinoic acid receptor alpha; RAR;

 Gene ID
 5914.0

 SwissProt ID
 P10276.

Application

Dilution Ratio WB 1:500~1:1000

Molecular Weight 51kDa

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Background

Retinoic acid receptors (RARalpha, -beta and -gamma) and retinoid X receptors (RXRalpha, -beta and -gamma) are nuclear receptors that function as RAR-RXR heterodimers or RXR homodimers; Regulates expression of target genes in a liganddependent manner by recruiting chromatin complexes containing KMT2E/MLL5. Mediates retinoic acid-induced granulopoiesis. Receptor for retinoic acid (PubMed: 19850744, PubMed:16417524, PubMed:20215566). 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 (PubMed: 28167758). The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5 (PubMed: 28167758). In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone deacetylation, chromatin condensation and transcriptional suppression (PubMed: 16417524). On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation (PubMed: 9267036, PubMed:19850744, PubMed:20215566). Formation of a complex with histone deacetylases might lead to inhibition of RARE DNA element binding and to transcriptional repression (PubMed:28167758). Transcriptional activation and RARE DNA element binding might be supported by the transcription factor KLF2 (PubMed: 28167758). RARA plays an essential role in the regulation of retinoic acid-induced germ cell development during spermatogenesis (By similarity). Has a role in the survival of early spermatocytes at the beginning prophase of meiosis (By similarity). In Sertoli cells, may promote the survival and development of early meiotic prophase spermatocytes (By similarity). In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function (By similarity). Together with RXRA, positively regulates microRNA-10a expression, thereby inhibiting the GATA6/VCAM1 signaling response to pulsatile shear stress in vascular endothelial cells (PubMed: 28167758). In association with HDAC3, HDAC5 and HDAC7 corepressors, plays a role in the repression of microRNA-10a and thereby promotes the inflammatory response (PubMed: 28167758 < /a>).

Research Area

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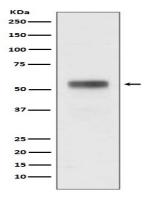
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Image Data



Western blot analysis of Retinoic Acid Receptor alpha expression in MCF-7 cell lysate.

Note

For research use only.

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