

Anti-Retinoic Acid Receptor, α -Isotype Antibody



Product Details

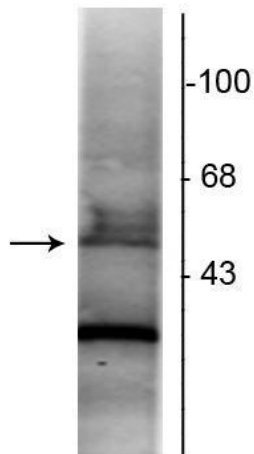
Available Variants	100 μ L (SKU:1330-RXRA) 25 μ L (SKU:1330-RXRA _t)
Conjugate	Unconjugated
Isotype	IgG1
Clone	763
Gene Name	RARA
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ g per ml BSA and 50% glycerol.
Production Notes	Prepared from tissue culture supernatant by ammonium sulfate precipitation followed by purification on a Protein G column.
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000 WB Brain: 1:1000
Species Reactivity	Human, Rat
Immunogen	Synthetic peptide corresponding to amino acid residues from the N-terminal region of human retinoic acid receptor, α -isotype, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~48 kDa RAR- α isotype.
Molecular Weight	48 kDa
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2492228
UniProt ID	<u>P10276</u> UniProt Summary: Receptor for retinoic acid (PubMed:16417524, PubMed:19850744, PubMed:20215566, PubMed:21152046, PubMed:37478846). 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:21152046, PubMed:28167758, PubMed:37478846). The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5 (PubMed:19398580, 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:19850744, PubMed:20215566, PubMed:37478846, PubMed:9267036). 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). {ECO:0000250 UniProtKB:P11416, ECO:0000269 PubMed:16417524, ECO:0000269 PubMed:19398580, ECO:0000269 PubMed:19850744, ECO:0000269 PubMed:20215566, ECO:0000269 PubMed:21152046, ECO:0000269 PubMed:28167758, ECO:0000269 PubMed:37478846, ECO:0000269 PubMed:9267036}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our

website.

Expected Reactivity	Bovine, Canine, Guinea Pig
NCBI Gene ID	5914

Product Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~48 kDa RAR- α protein.

Product Page URL: www.antibodiesinc.com/products/anti-retinoic-acid-receptor-a-isotype-antibody-1330-rxra



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