RARG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RARG, Polyclonal Antibody
Full Product Name	RARG Conjugated Antibody
Product Gene Name	anti-RARG antibody
Product Synonym Names	RARC; NR1B3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total RARG protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	50,342 Da
OMIM	180190
3D Structure	ModBase 3D Structure for P13631
Immunogen	Synthetic peptide of human RARG
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-RARG antibody	Most Applications
Application Notes for anti-RARG antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-RARG antibody	This gene encodes a retinoic acid receptor that belongs to the nuclear hormone receptor family. Retinoic acid receptors (RARs) act as ligand-dependent transcriptional regulators. When bound to ligands, RARs activate transcription by binding as heterodimers to the retinoic acid response elements (RARE) found in the promoter regions of the target genes. In their unbound form, RARs repress transcription of their target genes. RARs are involved in various biological processes, including limb bud development, skeletal growth, and matrix homeostasis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-RARG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RARG purchase	MBS9451892 is an antibody targeting RARG. Also known as RARG Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RARG. It may not necessarily be applicable to this product.

NCBI GI #	4506423
NCBI GeneID	5916
NCBI Accession #	NP_000957
UniProt Primary Accession #	P13631
UniProt Related Accession #	P13631
GenBank Nucleotide #	NM_000966
NCBI Official Full Name	retinoic acid receptor gamma isoform 1
NCBI Official Synonym Full Names	retinoic acid receptor, gamma
NCBI Official Symbol	RARG
NCBI Official Synonym Symbols	RARC; NR1B3
UniProt Protein Name	Retinoic acid receptor gamma
UniProt Synonym Protein Names	Nuclear receptor subfamily 1 group B member 3
Protein Family	Retinoic acid receptor
UniProt Gene Name	RARG
UniProt Synonym Gene Names	NR1B3; RAR-gamma
UniProt Entry Name	RARG_HUMAN
NCBI Protein Information	retinoic acid receptor gamma; RAR-gamma; nuclear receptor subfamily 1 group B member 3; retinoic acid nuclear receptor gamma variant 1; retinoic acid nuclear receptor gamma variant 2
UniProt Comments for RARG	RARG: 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. Homodimer. Heterodimer with a RXR molecule. Binds DNA preferentially as a RAR/RXR heterodimer. Forms a complex with PUS1 and the SRA1 RNA in the nucleus. Belongs to the nuclear hormone receptor family. NR1 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; transcription factor complex; nuclear chromatin; integral to membrane; nucleus Molecular Function: retinoid X receptor binding; protein binding; DNA binding; zinc ion binding; steroid hormone receptor activity; retinoic acid receptor activity; transcription factor activity Biological Process: retinoic acid receptor signaling pathway; transcription initiation from RNA polymerase II promoter; regulation of myelination; response to retinoic acid; glandular epithelial cell development; positive regulation of apoptosis; embryonic eye morphogenesis; multicellular organism growth; negative regulation of chondrocyte differentiation; Wnt receptor signaling pathway through beta-catenin; negative regulation of transcription from RNA polymerase II promoter; embryonic hindlimb morphogenesis; embryonic camera-type eye development; anterior/posterior pattern formation; negative regulation of cell proliferation; positive regulation of programmed cell death; positive regulation of cell proliferation; neural tube closure; steroid hormone mediated signaling; positive regulation of transcription from RNA polymerase II promoter; gene expression; transmembrane transport; regulation of cell size; negative regulation of apoptosis

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/rarg/9451892