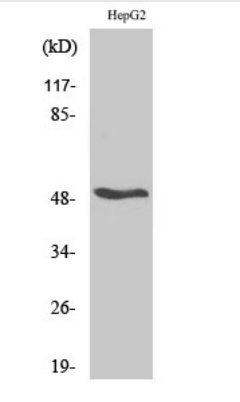
RARbeta Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RARbeta, Polyclonal Antibody
Full Product Name	RARbeta Polyclonal Antibody
Product Gene Name	anti-RARbeta antibody
Product Synonym Gene Name	RARB
Product Synonym Names	RARB; HAP; NR1B2; Retinoic acid receptor beta; RAR-beta; HBV-activated protein; Nuclear receptor subfamily 1 group B member 2; RAR-epsilon
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	50,489 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (25469754..25639423). Location: 3p24.2
OMIM	180220
3D Structure	ModBase 3D Structure for P10826
Applications Tested/Suitable for anti-RARbeta antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-RARbeta antibody	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. In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function.
Other Notes	Small volumes of anti-RARbeta 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 RARbeta purchase	MBS9245052 is an antibody targeting RARbeta. Also known as RARbeta Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Wester Blot (WB) of anti-RARbeta antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

ADDITIONAL DETAILS

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

NCBI GI #	14916494
NCBI GeneID	5915
NCBI Accession #	NP_000956.2
UniProt Primary Accession #	P10826
UniProt Secondary Accession #	P12891; Q00989; Q15298; Q9UN48
UniProt Related Accession #	P10826
GenBank Nucleotide #	NM_000965.3
NCBI Official Full Name	retinoic acid receptor beta isoform 1
NCBI Official Synonym Full Names	retinoic acid receptor, beta
NCBI Official Symbol	RARB
NCBI Official Synonym Symbols	HAP; RRB2; NR1B2
UniProt Protein Name	Retinoic acid receptor beta
UniProt Synonym Protein Names	HBV-activated protein; Nuclear receptor subfamily 1 group B member 2; RAR-epsilon
UniProt Gene Name	RARB
UniProt Synonym Gene Names	HAP; NR1B2; RAR-beta
UniProt Entry Name	RARB_HUMAN
NCBI Protein Information	retinoic acid receptor beta; RAR-beta; RAR-epsilon; HBV-activated protein; retinoic acid receptor beta 2; retinoic acid receptor beta 4; retinoic acid receptor beta 5; hepatitis B virus activated protein; retinoic acid receptor beta variant 1; retinoic ac
NCBI Summary for RARbeta	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. The gene expresses at least two transcript variants; one additional transcript has been described, but its full length nature has not been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for RARbeta	RARB: is a receptor for retinoic acid, a potent mammalian morphogen and teratogen that has profound effects on vertebrate development. RARB is a member of the nuclear receptor superfamily. Controls cell function by directly regulating gene expression. Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain. Four splice-variant isoforms have been described. Isoform beta-1 and beta-2 are nuclear and isoform beta-4 cytoplasmic. Protein type: Motility/polarity/chemotaxis; Nuclear receptor; Oncoprotein Chromosomal Location of Human Ortholog: 3p24.2 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: retinoid X receptor binding; protein binding; DNA binding; zinc ion binding; protein complex binding; steroid hormone receptor activity; drug binding; retinoic acid receptor activity Biological Process: retinoic acid receptor signaling pathway; transcription initiation from RNA polymerase II promoter; regulation of myelination; striatum development; glandular epithelial cell development; positive regulation of apoptosis; embryonic eye morphogenesis; multicellular organism growth; negative regulation of chondrocyte differentiation; ventricular cardiac muscle cell differentiation; negative regulation of transcription from RNA polymerase II promoter; signal transduction; embryonic hindlimb morphogenesis; negative regulation of cell proliferation; ureteric bud development; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; gene expression; steroid hormone mediated signaling; positive regulation of neuron differentiation; transmembrane transport; embryonic gut development; negative regulation of apoptosis Disease: Microphthalmia, Syndromic 12
Research Articles on RARbeta	**1.** HIF-1alpha up-regulation is dependent on intracrine PGE2-RARbeta signalling.
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-mouse-antibody/rarbeta/9245052