

Recombinant Human RARB

Cat. No. RARB-31058TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 173-409 of Human Retinoic Acid Receptor beta with proprietary tag. Estimated MW 53kDa
Species	Human
ProteinLength	173-409 a.a.
Description	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.
Biological activity	1 unit equals 1 nanogram (ng)
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.
GENE INFORMATION	
Gene Name	RARB retinoic acid receptor, beta [Homo sapiens]
Official Symbol	RARB
Synonyms	RARB; retinoic acid receptor, beta; retinoic acid receptor beta; HAP; NR1B2; RRB2;
Gene ID	5915
mRNA Refseq	NM_000965
Protein Refseq	NP_000956
MIM	180220
Uniprot ID	P10826
Chromosome Location	3p24
Pathway	Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Non-small cell lung cancer, organism-specific biosystem; Non-small cell lung cancer, conserved biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem;

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Function

DNA binding; metal ion binding; receptor activity; retinoic acid receptor activity;
sequence-specific DNA binding;

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