Active Recombinant Human Retinoic Acid Receptor, Beta, GST-tagged

Cat. No. RARB-1136H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Sf9 Cells
Description	Retinoic acid receptors are important in the regulation of growth and differentiation of epithelial tissues, embryonic and central nervous system development and hematopoiesis. Retinoids mediate their effect by two classes of nuclear receptor proteins, the Retinoic Acid Receptors (RARs) and the Retinoid X Receptors (RXRs), that each consist of three isotypes (α,β, and γ) encoded in separate genes. Upon dimerization with RXR, RARs can bind to specific enhancer sequences in the DNA, so-called Retinoic Acid Response Elements (RAREs), resulting in transcriptional activation of target genes in the presence of ligand. The RARγ in the adult is found almost exclusively in the skin. Retinoids affect epidermal cell growth and differentiation as well as sebaceous gland activity and exhibit immunomodulatory and anti-inflammatory properties. Current retinoid research targets the development of receptor-selective retinoids for tailoring and/or improving their therapeutic profile. Recombinant GST-RARγ was expressed in a baculovirus system and purified by an affinity column in combination with FPLC chromatography. The purified recombinant protein is greater than 90% homogeneous and contains no detectable protease, DNase, and RNase activity.
Purity	> 95% by SDS-PAGE.

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Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT and 20% glycerol.
Activity	20-100 ng are sufficient for an in vitro transcription assay and 100 ng are sufficient for a protein-protein interaction assay.
Application	RARγ has been applied in DNA and protein-protein interaction assays.
Storage	Quality guaranteed for 12 months. Store at -80°C.Avoid freeze / thaw cycles.
Usage	For in vitro use only.
Pathways	Non-small cell lung cancer; Pathways in cancer; Small cell lung cancer

GENE INFORMATION

Gene Name	RARB retinoic acid receptor, beta [Homo sapiens]
Synonyms	retinoic acid receptor, beta; HAP; RRB2; NR1B2; RARB; RAR-epsilon; RAR-beta; OTTHUMP00000161046; 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 polypeptide; RAR-epsilon; HBV-activated protein; Nuclear receptor subfamily 1 group B member 2
Gene ID	5915
mRNA Refseq	NM_000965
Protein Refseq	NP_000956
MIM	180220

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UniProt ID	P10826
Chromosome Location	3p24
Function	metal ion binding; retinoic acid receptor activity; sequence-specific DNA binding; steroid hormone receptor activity; transcription activator activity; transcription factor activity; zinc ion binding
PDB rendering based on 1dsz.	

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