

Active Recombinant Full Length Human Retinoid X Receptor, Beta, GST-tagged

Cat. No. RXRB-1154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

Retinoid X Receptor (RXR) serves as a promiscuous heterodimerization partner for many nuclear receptors through the identity box, a 40-amino acid subregion within the ligand binding domain. The human RXR β gene has been mapped to the short arm or centromeric region of chromosome 6 (6pter-q13) which also contains the MHC I locus. Two major RXR β isoforms in the mouse, designated RXR β 1 and RXR β 2 (GenBank accession numbers D21830 and D21831), differ in the N-terminal (A) domain with RXR β 1 containing an extra 72 amino acids. These isoform mRNAs are transcribed from two CpG island promoters and the different N-terminal exons are spliced to exons common to both isoforms from the remainder of the gene. Although the two mouse RXR isoforms have been characterized in some detail, less information is available about their human counterparts. Since the expression of different RXR isoforms appears to be well conserved between species, each receptor isoform may hold a specific role in retinoid signalling. However, many RXR expression studies have not recognised the importance of establishing which RXR isoforms are expressed in a particular system. RXR β is predominantly involved in retinoid responses in the N-type SH SY 5Y and the S-type SH S EP neuroblastoma cells, both derivatives of a mixed phenotype neuroblastoma cell line. Recombinant

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	GST-RXR is isolated from an E.coli strain that carries the coding sequence of the human RXR β under the control of a T7 promoter.
Form	Liquid. Supplied in 20mM Tris-HCl pH8.0, 100mM KCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
Activity	100ng are sufficient for a protein-protein interaction assay.
Application	GST-RXR β has been applied in DNA and protein-protein interactions assays.
Purity	>95% by SDS-PAGE.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months, store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	RXRB retinoid X receptor, beta [Homo sapiens]
Synonyms	RXRB; retinoid X receptor, beta; NR2B2; DAUDI6; RCoR-1; MGC1831; H-2RIIBP; MHC class I promoter binding protein; Retinoid X receptor beta; Nuclear receptor subfamily 2 group B member 2
Gene ID	6257
mRNA Refseq	NM_021976
Protein Refseq	NP_068811
MIM	180246

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UniProt ID	P28702
Chromosome Location	6p21.3
Pathway	Adipocytokine signaling pathway; Non-small cell lung cancer; PPAR signaling pathway; Pathways in cancer; Small cell lung cancer; Thyroid cancer
Function	ligand-regulated transcription factor activity; metal ion binding; retinoid-X receptor activity; sequence-specific DNA binding; steroid binding; steroid hormone receptor activity; transcription coactivator activity; transcription factor activity; zinc ion binding
PDB rendering based on 1by4.	