

Recombinant Human RARA, His-tagged

Cat. No. RARA-31053TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RARA(154-462) was expressed in E.coli. The His-tag recombinant protein is purified by affinity chromatography in combination with FPLC columns. The purified RAR-alpha-LBD is greater than 95% homogeneous based on SDS-PAGE analysis.
Species	Human
Source	E.coli
ProteinLength	154-462 a.a.
Description	This gene represents a nuclear retinoic acid receptor. The encoded protein, retinoic acid receptor alpha, regulates transcription in a ligand-dependent manner. This gene has been implicated in regulation of development, differentiation, apoptosis, granulopoiesis, and transcription of clock genes. Translocations between this locus and several other loci have been associated with acute promyelocytic leukemia. Alternatively spliced transcript variants have been found for this locus.
Form	The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
Molecular Mass	36.4 kDa
AA Sequence	SKESVRNDRN KKKKEVPKPE CSESYTLTPE VGELIEKVRK AHQETFPALC QLGKYTTNNSSEQRVSLDID LWDKFSELST KCIKTVEFA KQLPGFTTLT

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IADQITLLKA ACLDILILRICTRYTPEQDT MTFSDGLTLN RTQMHNAGFG
 PLTDLVFAFA NQLLPLEMDD AETGLLSAICLICGDRQDLE QPDRVDMQLQE
 PLLEALKVYV RKRRPSRPHM FPKMLMKITD LRSISAKGAERVITLKMEIP
 GSMPLIQEM LENSEGLDTL SGQPGGGGRD GGGLAPPPGS
 CSPSLSPSSNRSSPATHSP

Unit Definition

1 unit equals 1 nanogram of purified protein. 20 unit is sufficient for a gel mobility shift assay; 100 units are sufficient for protein-protein interaction assays.

Applications

RAR α can be applied in in vitro transcription assays, DNA-protein and protein-protein interaction assays.

Storage

Stored at -70°C before use. Avoid repeated freeze thaw cycles.

GENE INFORMATION

Gene Name

RARA retinoic acid receptor, alpha [Homo sapiens (human)]

Official Symbol

RARA

Synonyms

RARA; NR1B1; RAR; RAR-alpha; Retinoic acid receptor, alpha; Retinoic acid receptor alpha; OTTHUMP00000164454; OTTHUMP00000164456; Nuclear receptor subfamily 1 group B member 1; Retinoic acid receptor, alpha polypeptide; retinoic acid receptor, alpha; nucleophosmin-retinoic acid receptor alpha fusion protein NPM-RAR long form; Retinoic acid receptor alpha (RAR-alpha); NR1B1 (nuclear receptor subfamily 1, group B, member 1)

Gene ID

5914

mRNA Refseq

NM_000964

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Protein Refseq	NP_000955
MIM	180240
UniProt ID	P10276
Chromosome Location	17q21
Pathway	Acute myeloid leukemia; Pathways in cancer; IL-3 Signaling Pathway
Function	metal ion binding; protein binding; retinoic acid binding; retinoic acid receptor activity; sequence-specific DNA binding; steroid hormone receptor activity; transcription coactivator activity; transcription factor activity; zinc ion binding

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