

Recombinant Human RARA, His-tagged

Cat. No. RARA-2510H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RARA was expressed in Baculovirus-insect cell. The His-tag recombinant protein is purified by affinity chromatography in combination with FPLC columns. The purified RAR-alpha is greater than 95% homogeneous based on SDS-PAGE analysis.
Species	Human
Source	Insect Cells
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	52.5 kDa
AA Sequence	MASNSSSCPT PGGGHLNGYP VPPYAFFFP MLGGLSPPGA LTTLQHQLPV SGYSTPSPATIETQSSSSEE IVSPSPSPPP LPRIYKPCFV CQDKSSGYHY GVSACEGCKG FFRRSIQKNMVYTCNRDKNC IINKVTRNRC QYCRLQKCFE VGMSKESVRN DRNKKKKEVP KPECSESYTLTPEVGELIEK VRKAHQETFP

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ALCQLGKYTT NNSSEQRVSL DIDLWDFSE LSTKCIKTVFAKQLPGFT
 TLTADQITL LKAACLDILI LRICTRYTPE QDTMTFSDGL
 TLNRTQMHNAGFGPLTDLVF AFANQLLPLE MDDAETGLLS AICLICGDRQ
 DLEQPDRVDM LQEPLLEALKVYVRKRRPSR PHMFPKMLMK ITDLRSISAK
 GAERVITLKM EIPGSMPLI QEMLENSEGLDTLSGQPGGG GRDGGGLAPP
 PGSCSPSLSP SSNRSSPATH SP

Unit Definition 1 unit equals 1 nanogram of purified protein. Variable exist in different lots.

Applications RAR alpha 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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