

Active Recombinant Human RARA Protein, GST tagged

Cat. No. RARA-1131H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Retanoic Acid Receptor alpha ligand binding domain (amino acids 176-462; NP_000955), GST-tagged, expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	176-462 aa
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, granulopoeisis, 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	50 mM potassium phosphate (pH 8.0), 150 mM KCl, 0.5 mM EDTA, 0.02% Triton X-100, 10 mM DTT and 20% Glycerol.
Molecular Mass	59.5 kDa. Calculated from the protein sequence(s).
Purity	95% as determined by a SDS-PAGE gel stained with SimplyBlue SafeStain.
Storage	If properly stored in its original container at -80 centigrade, this product is guaranteed for 6 months from date of purchase. Mix gently, do not vortex. Do NOT make single

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

use aliquots.

Concentration

0.50 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard. Calculated 8,400 nM.

Shipping

Dry ice

GENE INFORMATION
Gene Name

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

Official Symbol

RARA

Synonyms

RARA; retinoic acid receptor alpha; RAR; NR1B1; RARalpha; retinoic acid receptor alpha; PML-DDX5-RARA fusion; PML-DDX5-RARA fusion protein; RAR-alpha; TTMV/RARA fusion; TTMV/RARA fusion protein; nuclear receptor subfamily 1 group B member 1; nucleophosmin-retinoic acid receptor alpha fusion protein NPM-RAR long form; retinoic acid receptor, alpha polypeptide

Gene ID

5914

mRNA Refseq

NM_000964

Protein Refseq

NP_000955

MIM

180240

UniProt ID

P10276

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SDS-PAGE

Gel Information for RAR alpha, LBD (GST)

Page Description: The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex gels

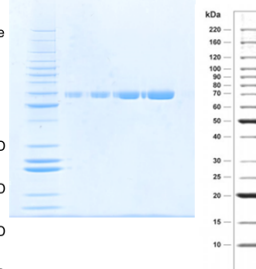
Lane 1: Protein Ladder

Lane 2: 0.3 µg RAR alpha, LBD (GST)

Lane 3: 0.6 µg RAR alpha, LBD (GST)

Lane 4: 1.5 µg RAR alpha, LBD (GST)

Lane 5: 3.0 µg RAR alpha, LBD (GST)



Protein sequence

GenBank Accession Number: NP_000955

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1  MAPFLQAKNGELVPTRLLELYEKEEYHVERDEGQANWKFELGLFFNLPYYIDGGVLTQSMATIRYADKNHMLGGCPKRAETDLEEGAVL  GST
2  MAPFLQAKNGELVPTRLLELYEKEEYHVERDEGQANWKFELGLFFNLPYYIDGGVLTQSMATIRYADKNHMLGGCPKRAETDLEEGAVL  LBD
376  -----
181  DERGVREIATYKDFELKVDFLSALPELKNFEELCKHTYLMGQHTNRPFLYDALDVALYHNPCLDAFPKLVCFKAREIATPQDKYLAKSKYIA
192  DERGVREIATYKDFELKVDFLSALPELKNFEELCKHTYLMGQHTNRPFLYDALDVALYHNPCLDAFPKLVCFKAREIATPQDKYLAKSKYIA
193  -----
181  NPLQGAATFGGGHPKSDLPVHNITSLYKAGSAAAPFTESVTLTPEVGLTEKVRKARDEFFPALCQLKTYTNNSGEQVLSQDLMDKFSLEST
192  NPLQGAATFGGGHPKSDLPVHNITSLYKAGSAAAPFTESVTLTPEVGLTEKVRKARDEFFPALCQLKTYTNNSGEQVLSQDLMDKFSLEST
193  -----
224  KCIDKTYEFAQLPGFTTLTADQITLLKACLDLILSDCTRYTFQDITHTSDGLTNMTQRMNAGPLTDLVAFANQLPLENDNETGLLSAIC
234  KCIDKTYEFAQLPGFTTLTADQITLLKACLDLILSDCTRYTFQDITHTSDGLTNMTQRMNAGPLTDLVAFANQLPLENDNETGLLSAIC
235  -----
224  LCCGQDQLEQDQVQRLDEPLLEALKVYVKKRPSFPHNPNMLKTDKLSIANGAEVITLKHEIPCSRPPLIQEMLENSEGLDTLSQPGGGGRD
234  LCCGQDQLEQDQVQRLDEPLLEALKVYVKKRPSFPHNPNMLKTDKLSIANGAEVITLKHEIPCSRPPLIQEMLENSEGLDTLSQPGGGGRD
235  -----
224  GGGLAPPGSCSPILSPSNRSPATHSP
234  GGGLAPPGSCSPILSPSNRSPATHSP

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