

# Active Recombinant Full Length Human RXRA Protein, Flag tagged

**Cat. No.** RXRA-2013H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant human RXR- $\alpha$ (RXRA) protein was expressed in a baculovirus expression system as the full length protein (accession number NP_002948.1) with an N-terminal FLAG tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 1-462 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>RXR-<math>\alpha</math> or so called RXRA (Retinoid X Receptor Alpha), also known as NR2B1, is a receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5-AGGTCA-3 sites known as DR1-DR5. The high affinity ligand for RXRs is 9-cis retinoic acid. RXRA serves as a common heterodimeric partner for a number of nuclear receptors. In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone acetylation, chromatin condensation and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation. The RXRA/PPARA heterodimer is required for PPARA transcriptional activity on fatty acid oxidation genes such as</p> |

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|                         |                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | ACOX1 and the P450 system genes.                                                                                                                                                               |
| <b>Molecular Weight</b> | 52.1 kDa                                                                                                                                                                                       |
| <b>Purity</b>           | >90%                                                                                                                                                                                           |
| <b>Applications</b>     | This protein is suitable for use in protein-protein interaction, in vitro transcription assay, binding assay.                                                                                  |
| <b>Storage</b>          | Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. |
| <b>Storage Buffer</b>   | Recombinant RXR-α (RXRA) protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.                                                         |
| <b>Concentration</b>    | >0.25 µg/µL                                                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RXRA retinoid X receptor alpha [ Homo sapiens (human) ]                                                                                                                                                        |
| <b>Official Symbol</b> | RXRA                                                                                                                                                                                                           |
| <b>Synonyms</b>        | RXRA; retinoid X receptor, alpha; retinoic acid receptor RXR-alpha; NR2B1; nuclear receptor subfamily 2 group B member 1; retinoid X nuclear receptor alpha; FLJ00280; FLJ00318; FLJ16020; FLJ16733; MGC102720 |
| <b>Gene ID</b>         | 6256                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_002957                                                                                                                                                                                                      |

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|----------------|---------------------------|
| Protein Refseq | <a href="#">NP_002948</a> |
| MIM            | <a href="#">180245</a>    |
| UniProt ID     | <a href="#">P19793</a>    |

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