

Recombinant Mouse Rxra Protein, Myc/DDK-tagged

Cat. No. Rxra-5659M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length retinoid X receptor alpha (Rxra), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Receptor for retinoic acid that acts as a transcription factor. Forms homo- or heterodimers with retinoic acid receptors (RARs) and binds to target response elements in response to their ligands, all-trans or 9-cis retinoic acid, to 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 to regulate transcription. The high affinity ligand for retinoid X receptors (RXRs) is 9-cis retinoic acid. In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone deacetylation, chromatin condensation and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and coactivators are recruited leading to transcriptional activation. Serves as a common heterodimeric partner for a number of nuclear receptors, such as RARA, RARB and PPARA. The RXRA/RARB heterodimer can act as a transcriptional repressor or transcriptional activator, depending on the RARE DNA element context. The RXRA/PPARA heterodimer is required for PPARA transcriptional activity on fatty acid oxidation genes such as ACOX1 and the P450 system genes. Together with RARA, positively regulates microRNA-10a expression, thereby inhibiting the

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GATA6/VCAM1 signaling response to pulsatile shear stress in vascular endothelial cells. Acts as an enhancer of RARA binding to RARE DNA element. May facilitate the nuclear import of heterodimerization partners such as VDR and NR4A1. Promotes myelin debris phagocytosis and remyelination by macrophages. Plays a role in the attenuation of the innate immune system in response to viral infections, possibly by negatively regulating the transcription of antiviral genes such as type I IFN genes. Involved in the regulation of calcium signaling by repressing ITPR2 gene expression, thereby controlling cellular senescence.

Molecular Mass	51.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rxra retinoid X receptor alpha [Mus musculus (house mouse)]
Official Symbol	Rxra
Synonyms	RXRA; retinoid X receptor alpha; retinoic acid receptor RXR-alpha; RXR alpha 1; nuclear receptor subfamily 2 group B member 1; Nr2b1; RXRalpha1; 9530071D11Rik

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Gene ID	20181
mRNA Refseq	NM_011305
Protein Refseq	NP_035435
UniProt ID	P28700

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