

# Recombinant Human Retinoid X Receptor alpha/RXRA protein ab82050

### 描述

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|---------|-------------------------------------|
| 产品名称    | 重组人Retinoid X Receptor alpha/RXRA蛋白 |
| 纯度      | > 95 % SDS-PAGE.                    |
| 表达系统    | Escherichia coli                    |
| 蛋白长度    | Full length protein                 |
| 无动物成分   | No                                  |
| 性质      | Recombinant                         |
| 种属      | Human                               |
| 标签      | His tag N-Terminus                  |
| 额外的序列信息 | 6His Tag at the N-terminus          |

### 技术指标

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Our **Abpromise guarantee** covers the use of **ab82050** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|      |   |
|------|---|
| 应用   | SDS-PAGE  |
| 形式   | Liquid  |
| 补充说明 | This product was previously labelled as Retinoid X Receptor alpha |

### 制备和贮存

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| 稳定性和存储 | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.<br>pH: 7.9<br>Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine) |
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### 常规信息

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| <b>功能</b>    | 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. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. 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 ACOX1 and the P450 system genes. |
| <b>组织特异性</b> | Highly expressed in liver, also found in lung, kidney and heart.  |
| <b>序列相似性</b> | Belongs to the nuclear hormone receptor family. NR2 subfamily.<br>Contains 1 nuclear receptor DNA-binding domain.   |
| <b>结构域</b>   | Composed of three domains: a modulating N-terminal domain (AF1 domain), a DNA-binding domain and a C-terminal ligand-binding domain (AF2 domain).   |
| <b>翻译后修饰</b> | Phosphorylated on serine and threonine residues mainly in the N-terminal modulating domain. Constitutively phosphorylated on Ser-21 in the presence or absence of ligand. Under stress conditions, hyperphosphorylated by activated JNK on Ser-56, Ser-70, Thr-82 and Ser-260 (By similarity). Phosphorylated on Ser-27, in vitro, by PKA. This phosphorylation is required for repression of cAMP-mediated transcriptional activity of RARA.<br>Sumoylation negatively regulates transcriptional activity. Desumoylated specifically by SENP6.   |
| <b>细胞定位</b>  | Nucleus.  |

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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