

Datasheet for ABIN7564690  
**RORB Protein (AA 1-470) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RORB
Protein Characteristics:	AA 1-470
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RORB protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Rorb Protein expressed in mammalian cells.
Sequence:	MCENQPKTKA DGTAQIEVIP CKICGDKSSG IHYGVITCEG CKGFFRRSQQ NNASYSCPRQ RNCLIDRTNR NRCQHCRLQK CLALGMSRDA VKFGRMSKKQ RDSLYAEVQK HQQRLQEQRQ QQSGEAEALA RYSSSISNG LSNLNTETGG TYANGHVIDL PKSEGYYSID SGQPSPDQSG LDMTGIKQIK QEPIYDLTSV PNLFTYSSFN NGQLAPGITM SEIDRIAQNI IKSHLETQY TMEELHQLAW QTHTYEEIKA YQSKSREALW QQCAIQITHA IQYVVEFAKR ITGFMELCQN DQILLKSGC LEVVLVRMCR AFNPLNNTVL FEGKYGGMQM FKALGSDDLV NEAFDFAKNL CSLQLTEEEI ALFSSAVLIS PDRAWLIEPR KVQKLQEKIY FALQHVIQKN HLDDETLAKL IAKIPTITAV CNLHGEKLQV FKQSHPDIVN TLFPPYKEL FNPDCAAVCK <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

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isoform, please contact us regarding an individual offer.

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

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### Target:

RORB

### Alternative Name:

Rorb ([RORB Products](#))

### Background:

Nuclear receptor ROR-beta (Nuclear receptor RZR-beta) (Nuclear receptor subfamily 1 group F member 2) (Retinoid-related orphan receptor-beta),FUNCTION: Nuclear receptor that binds DNA as a monomer to ROR response elements (RORE) containing a single core motif half-site 5'-AGGTCA-3' preceded by a short A-T-rich sequence. Considered to have intrinsic transcriptional activity, have some natural ligands such as all-trans retinoic acid (ATRA) and other retinoids which act as inverse agonists repressing the transcriptional activity. Required for normal postnatal development of rod and cone photoreceptor cells. Modulates rod photoreceptors differentiation at least by inducing the transcription factor NRL-mediated pathway. In cone photoreceptor cells, regulates transcription of OPN1SW. Involved in the regulation of the period length and stability of the circadian rhythm. May control cytoarchitectural patterning of neocortical neurons during development. May act in a dose-dependent manner to regulate barrel formation upon innervation of layer IV neurons by thalamocortical axons. May play a role

## Target Details

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in the suppression of osteoblastic differentiation through the inhibition of RUNX2 transcriptional activity. {ECO:0000250|UniProtKB:P45446}., FUNCTION: Isoform 1 is critical for hindlimb motor control and for the differentiation of amacrine and horizontal cells in the retina. Regulates the expression of PTF1A synergistically with FOXN4. {ECO:0000269|PubMed:23652001}.

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Molecular Weight: 53.1 kDa

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UniProt: [Q8R1B8](#)

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Pathways: [Nuclear Receptor Transcription Pathway](#), [Steroid Hormone Mediated Signaling Pathway](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months