

**RORB Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14054B****Specification**

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**RORB Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O92753</a>
Other Accession	<a href="#">P45446</a> , <a href="#">Q8R1B8</a> , <a href="#">NP_008845.2</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53220
Antigen Region	329-358

**RORB Antibody (C-term) - Additional Information****Other Names**

Nuclear receptor ROR-beta, Nuclear receptor RZR-beta, Nuclear receptor subfamily 1 group F member 2, Retinoid-related orphan receptor-beta, RORB, NR1F2, RZRB

**Target/Specificity**

This RORB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 329-358 amino acids from the C-terminal region of human RORB.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RORB Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RORB Antibody (C-term) - Protein Information**

**Name** RORB

**Synonyms** NR1F2, RZRB

**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 in the suppression of osteoblastic differentiation through the inhibition of RUNX2 transcriptional activity (By similarity).

#### **Cellular Location**

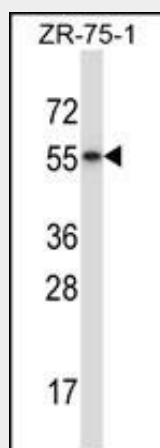
Nucleus, nucleoplasm

#### **RORB Antibody (C-term) - Protocols**

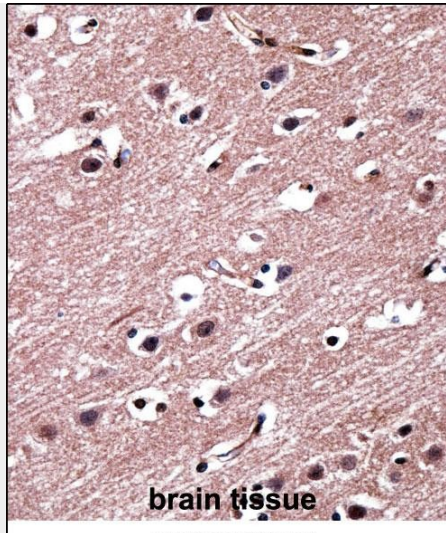
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **RORB Antibody (C-term) - Images**



RORB Antibody (C-term) (Cat. #AP14054b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the RORB antibody detected the RORB protein (arrow).



RORB Antibody (C-term) (AP14054b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of RORB Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **RORB Antibody (C-term) - Background**

The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The specific functions of this protein are not known, but it has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation.

#### **RORB Antibody (C-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)  
Mansour, H.A., et al. Bipolar Disord 11(7):701-710(2009)  
McGrath, C.L., et al. BMC Psychiatry 9, 70 (2009) :  
Humphray, S.J., et al. Nature 429(6990):369-374(2004)

#### **RORB Antibody (C-term) - Citations**

- [Combinatorial regulation of a Blimp1 \(Prdm1\) enhancer in the mouse retina.](#)