10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ROR beta Antibody

Rabbit mAb
Catalog # AP92270

Product Information

Application	WB
Primary Accession	Q92753
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	NR1F2; ROR BETA; Rorb; RZR BETA; RZRB;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	53220

Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ROR beta
Description	Orphan nuclear receptor required for normal postnatal development of rod and cone photoreceptor cells. Regulates transcription of OPN1SW in cone photoreceptor cells by binding the sequence 5'-AGGTCA-3' in the OPN1SW promoter.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

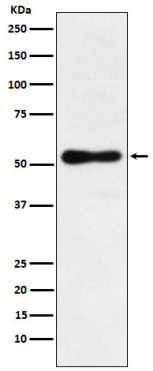
Protein Information

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

Images



Western blot analysis of ROR beta expression in HepG2 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.