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Datasheet for 209-301-E26

Retinoic Acid Receptor beta Antibody

Overview

Description:	Anti-Retinoic Acid Receptor beta (MOUSE) Monoclonal Antibody - 209-301-E26
Item No.:	209-301-E26
Size:	100 µL
Applications:	WB
Reactivity:	Human, Rat
Host Species:	Mouse

Product Details

Background:	Retinoic Acid Receptor beta antibody detects RAR beta. Retinoic Acid (RA; active metabolite of vitamin A) plays a prominent role in regulating the transition of proliferating precursor cells (such as carcinoma cells and neuronal precursors) to postmitotic differentiated cells. The Retinoid X receptors (RXRs) family (RXRα, β and γ) preferentially bind 9-cis-RA and regulate gene transcription by forming heterodimers with a second family of RA receptors (RARs). RAs have been suggested to potentially play a therapeutic role in cervical cancer. RAs are known to play key roles in neuronal development and an increasing body of evidence indicates that retinoid signaling may regulate synaptic plasticity and associated learning and memory behaviors.
Synonyms:	mouse anti-Retinoic Acid Receptor beta Antibody, mouse anti-RAR-beta antibody, HBV-activated protein, Nuclear receptor subfamily 1 group B member 2, RAR-epsilon
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	336
Format:	IgG1

Target Details

Gene Name:	RARB
Reactivity:	Human, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Retinoic Acid Receptor beta was produced by repeated immunizations with a synthetic peptide corresponding to amino acid residues from the N-terminal region of RAR beta.
Purity/Specificity:	Anti-Retinoic Acid Receptor beta antibody detects Retinoic Acid Receptor beta. Retinoic Acid Receptor beta antibodies was Protein G purified from cell culture supernatant. This antibody is directed against human retinoic acid receptor beta protein. Expect reactivity with RAR beta from the following species is predicted based on 100% sequence homology: canine, guinea pig, mouse, rat, non-human primate. Cross reactivity from other sources has not been determined.
Relevant Links:	• UniProtKB - P10826 • GeneID - 5915 • UniProtKB - P10826.2

Application Details

Tested Applications:	WB
Application Note:	Anti-Retinoic Acid Receptor beta antibody is tested for use in Western Blotting to detect a single band at approximately 48 kDa corresponding to expected molecular weight for RAR-β proteins in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

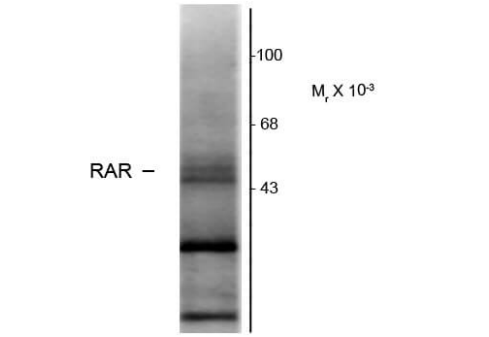
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of hippocampal lysate showing specific immunolabeling of the ~48k RAR-β protein.

Western Blot

Western Blot of Mouse anti-Retinoic Acid Receptor beta antibody. Lane 1: hippocampal lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Retinoic Acid Receptor beta antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 48 kDa for Retinoic Acid Receptor beta. Other band(s): Retinoic Acid Receptor beta splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.