

RARB Monoclonal Antibody (336)

Catalog NumberMA1-4670

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Rat
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Western Blot (WB)	1:1,000
Clone	336	Published Applications	
Immunogen	Synthetic peptide corresponding to the N-terminal region of human RARB conjugated to KLH	Immunohistochemistry (IHC)	See 1 publications below
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Purification	Protein G		
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol		
Contains	no preservative		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with canine, guinea pig, mouse and non-human primate based on 100% sequence homology. This antibody is specific for the ~48 kDa RXR-b protein.

Background/Target Information

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 (RXR alpha, beta, and gamma), preferentially bind 9-cis -RA and regulate gene transcription by forming heterodimers with a second family of RA receptors. 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.

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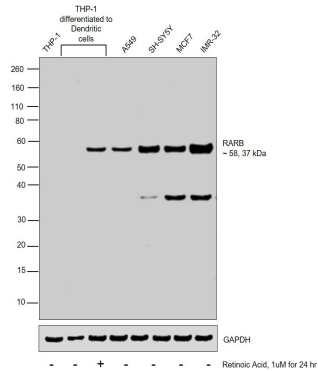
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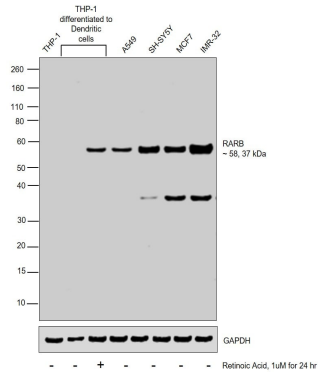
RARB Antibody (MA1-4670) in WB

Western blot was performed using Anti-RARB Monoclonal Antibody (336) (Product # MA1-4670) and 58, 37 kDa bands corresponding to RARB was observed across the cell lines tested and induced upon Retinoic acid treatment in Dendritic cells differentiated from THP-1. Whole cell lysates (30ug lysate) of THP-1 (Lane 1), THP-1 cells differentiated to Dendritic cells (Lane2), Dendritic cells treated with Retinoic acid (1uM for 24 hr) (Lane 3), A549 (Lane 4), SH-SY5Y (Lane 5), MCF7 (Lane 6) and IMR-32 (Lane 7) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



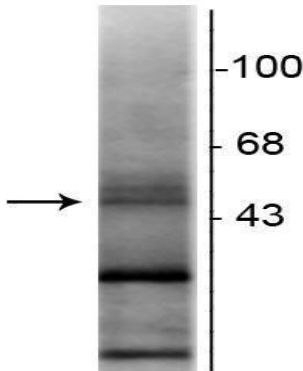
RARB Antibody (MA1-4670)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using RARB Monoclonal Antibody (336) (Product # MA1-4670), shows induction of proteins in Dendritic cells differentiated from THP-1 upon Retinoic acid treatment. {TM}



RARB Antibody (MA1-4670) in WB

Western blot of RARB in rat hippocampal lysate showing specific immunolabeling of a ~48 kDa band corresponding to RARB monoclonal antibody (Product # MA1-4670).



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PubMed References For RARB Monoclonal Antibody (336)

1 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	MA1-4670 was used in immunohistochemistry to investigate the differential expression of retinoic acid receptor and AP-1 protein in normal, premalignant and malignant laryngeal tissues
	European journal of cancer (Oxford, England : 1990) ( 2004; 40: 761) <b>"Differential expression of retinoic acid receptor beta (RARbeta) and the AP-1 transcription factor in normal, premalignant and malignant human laryngeal tissues."</b> Author(s):Karamouzis MV,Sotiropoulou-Bonikou G,Vandoros G,Varakis I,Papavassiliou AG PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.ejca.2003.12.002">http://dx.doi.org/10.1016/j.ejca.2003.12.002</a>

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