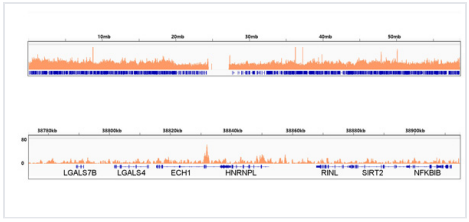
Rxralpha (RXRA) Antibody – Rabbit Monoclonal

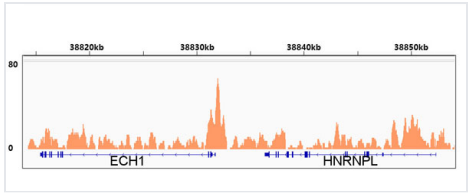
PRODUCT OVERVIEW

Product Name	RXRalpha, Monoclonal Antibody
Full Product Name	RXRalpha Rabbit mAb
Product Gene Name	anti-RXRA antibody
Product Synonym Names	NR2B1; RXRalpha; RXR-alpha; RXRalpha
Immunogen Sequence	MDTKHFLPLD FSTQVNSSLT SPTGRGSMAA PSLHPSLGPG IGSPGQLHSP ISTLSSPING MGPPFSVISS PMGPHSMSVP TTPTLGFSTG SPQLSSPMNP
Clonality	Monoclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 51kDa Observed MW: 60kDa
OMIM	180245
3D Structure	ModBase 3D Structure for P19793
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human RXRalpha (P19793).
Product Categories/Family for anti-RXRA antibody	Epigenetics Nuclear Signaling; Transcription Factors; Nuclear Receptor Signaling; Nuclear hormone receptors; Cancer; Signal Transduction; Endocrine Metabolism; Lipid Metabolism; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RXRA antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoprecipitation (IP), ELISA (EIA), Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation (ChIP)-seq
Application Notes for anti-RXRA antibody	WB: 1:1000-1:2000 IF/ICC: 1:100-1:1000 IP: 0.5ug-4ug antibody for 200ug-400ug extracts of whole cells ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements. ChIP: 5ug antibody for 10ug-15ug of Chromatin ChIP-seq: 1:50-1:100
Related Product Information for anti-RXRA antibody	Retinoid X receptors (RXRs) and retinoic acid receptors (RARs) are nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid-mediated gene activation. These receptors function as transcription factors by binding as homodimers or heterodimers to specific sequences in the promoters of target genes. The protein encoded by this gene is a member of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. Alternative splicing of this gene results in multiple transcript variants.
Other Notes	Small volumes of anti-RXRA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

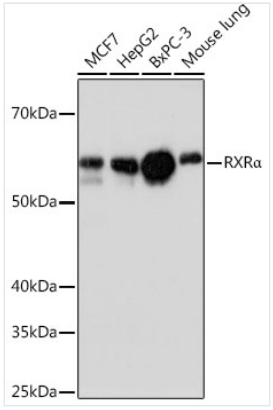
Searchable Terms for RXRA purchase	MBS9147196 is an antibody targeting RXRA. Also known as RXRalpha Rabbit mAb. Reactive in Human. Host: Rabbit.



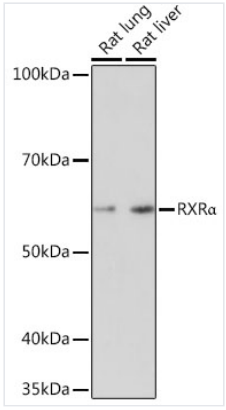
Chromatin Immunoprecipitation (ChIP) of anti-RXRA antibody
Chromatin immunoprecipitation was performed with 25 ug of cross-linked chromatin from HepG2 cells using 5 ug of RXR? Rabbit mAb (MBS9147196). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of RXR? across chromosome 19 (upper panel) and the genomic region encompassing ECH1, a representative gene enriched in RXR? (lower panel).



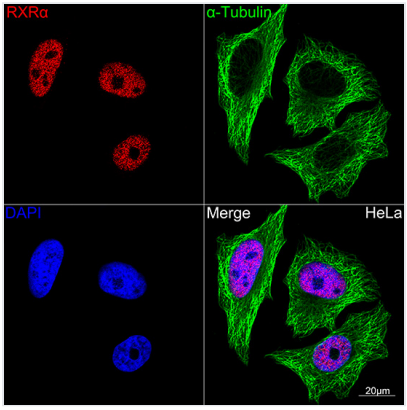
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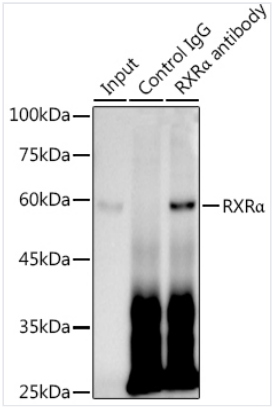
Western Blot (WB) of anti-RXRA antibody
Western blot analysis of various lysates using RXR? Rabbit mAb (MBS9147196) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3min.



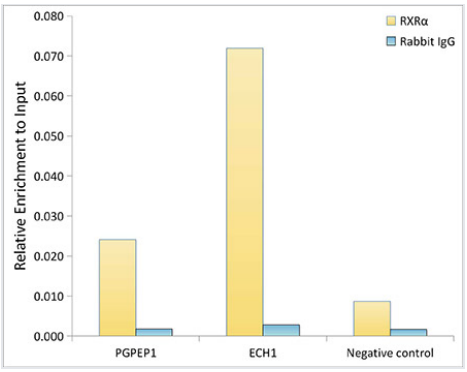
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Western blot analysis of various lysates using RXR? Rabbit mAb (MBS9147196) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 90s.



Immunocytochemistry (ICC) of anti-RXRA antibody
Confocal imaging of HeLa cells using RXR? Rabbit mAb (MBS9147196,dilution 1:100)(Red). The cells were counterstained with ?-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunoprecipitation (IP) of anti-RXRA antibody
Immunoprecipitation analysis of 300 ug extracts from HepG2 cells using 3 ug RXR? antibody (MBS9147196). Western blot was performed from the immunoprecipitate using RXR? antibody (MBS9147196) at a dilution of 1:1000.



Chromatin Immunoprecipitation (ChIP) of anti-RXRA antibody
Chromatin immunoprecipitation analysis of extracts from HepG2 cells, using RXR? antibody (MBS9147196) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RXRA. It may not necessarily be applicable to this product.

NCBI GI #	133701
NCBI GeneID	6256
NCBI Accession #	P19793.1
UniProt Primary Accession #	P19793
UniProt Secondary Accession #	Q2NL52; Q2V504
UniProt Related Accession #	P19793
UniProt Protein Name	Retinoic acid receptor RXR-alpha
UniProt Synonym Protein Names	Nuclear receptor subfamily 2 group B member 1; Retinoid X receptor alpha
Protein Family	Retinoic acid receptor
UniProt Gene Name	RXRA
UniProt Synonym Gene Names	NR2B1
UniProt Entry Name	RXRA_HUMAN

UniProt Comments for RXRA	RXRA: Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. The high affinity ligand for RXRs is 9-cis retinoic acid. RXRA serves as a common heterodimeric partner for a number of nuclear receptors. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone acetylation, chromatin condensation and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation. The RXRA/PPARA heterodimer is required for PPARA transcriptional activity on fatty acid oxidation genes such as ACOX1 and the P450 system genes. Homodimer. Heterodimer with RARA; required for ligand- dependent retinoic acid receptor transcriptional activity. Heterodimer with PPARA (via the leucine-like zipper in the LBD); the interaction is required for PPARA transcriptional activity. Also heterodimerizes with PPARG. Interacts with NCOA3 and NCOA6 coactivators. Interacts with FAM120B. Interacts with PELP1, SENP6, SFPQ, DNTTIP2 and RNF8. Interacts (via the DNA binding domain) with HCV core protein; the interaction enhances the transcriptional activities of the RXRA/RARA and the RXRA/PPARA heterodimers. Interacts with PRMT2. Interacts with ASXL1 and NCOA1. Highly expressed in liver, also found in lung, kidney and heart. Belongs to the nuclear hormone receptor family. NR2 subfamily. Protein type: DNA-binding; Nuclear receptor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9q34.3 Cellular Component: nucleoplasm; nuclear chromatin; nucleus; receptor complex Molecular Function: ligand-dependent nuclear receptor activity; zinc ion binding; chromatin DNA binding; transcription coactivator activity; protein binding; enzyme binding; DNA binding; retinoid-X receptor activity; vitamin D receptor binding; protein heterodimerization activity; sequence-specific DNA binding; steroid hormone receptor activity; retinoic acid receptor activity; transcription factor activity Biological Process: retinoic acid receptor signaling pathway; transcription initiation from RNA polymerase II promoter; cholesterol metabolic process; camera-type eye development; response to retinoic acid; vitamin metabolic process; in utero embryonic development; ventricular cardiac muscle cell differentiation; negative regulation of transcription from RNA polymerase II promoter; cellular lipid metabolic process; positive regulation of translational initiation by iron; protein homotetramerization; virus-host interaction; ventricular cardiac muscle morphogenesis; positive regulation of transcription from RNA polymerase II promoter; steroid hormone mediated signaling; gene expression; transmembrane transport; embryo implantation; maternal placenta development
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