NR0B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NR0B1, Polyclonal Antibody
Full Product Name	NR0B1, NT (Nuclear Receptor Subfamily 0 Group B Member 1, Nuclear Receptor DAX-1, DSS-AHC Critical Region On The X Chromosome Protein 1, DAX1, AHC, DAX1) (MaxLight 550)
Product Gene Name	anti-NR0B1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human NROB1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,590 Da
OMIM	phenotype 300473
3D Structure	ModBase 3D Structure for P51843
Immunogen	Synthetic peptide selected from the N-terminal region of human NROB1 (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-NR0B1 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-NR0B1 antibody	Western Blot (WB), FLISA
Application Notes for anti-NR0B1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NR0B1 antibody	MBS6490679 is an antibody targeting NR0B1. Also known as NR0B1, NT (Nuclear Receptor Subfamily 0 Group B Member 1, Nuclear Receptor DAX-1, DSS-AHC Critical Region On The X Chromosome Protein 1, DAX1, AHC, DAX1) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-NR0B1 antibody	1. Calliari, L.E., Genet. Mol. Res. 6(2), 177-183 (2007). 2. Kinsey, M., Mol. Cancer Res. 4(11), 851-859 (2006).
Other Notes	Small volumes of anti-NR0B1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NR0B1. It may not necessarily be applicable to this product.

NCBI GI #	5016090
NCBI GeneID	190
NCBI Accession #	NP_000466
UniProt Primary Accession #	P51843
UniProt Secondary Accession #	Q96F69
UniProt Related Accession #	P51843
GenBank Nucleotide #	NM_000475.4
NCBI Official Full Name	nuclear receptor subfamily 0 group B member 1
NCBI Official Synonym Full Names	nuclear receptor subfamily 0, group B, member 1
NCBI Official Symbol	NR0B1
NCBI Official Synonym Symbols	AHC; AHX; DSS; GTD; HHG; AHCH; DAX1; DAX-1; NROB1; SRXY2
UniProt Protein Name	Nuclear receptor subfamily 0 group B member 1
UniProt Synonym Protein Names	DSS-AHC critical region on the X chromosome protein 1; Nuclear receptor DAX-1
Protein Family	Nuclear receptor subfamily
UniProt Gene Name	NR0B1
UniProt Synonym Gene Names	AHC; DAX1
UniProt Entry Name	NR0B1_HUMAN
NCBI Protein Information	nuclear receptor subfamily 0 group B member 1
NCBI Summary for NR0B1	This gene encodes a protein that contains a DNA-binding domain. The encoded protein acts as a dominant-negative regulator of transcription which is mediated by the retinoic acid receptor. This protein also functions as an anti-testis gene by acting antagonistically to Sry. Mutations in this gene result in both X-linked congenital adrenal hypoplasia and hypogonadotropic hypogonadism. [provided by RefSeq, Jul 2008]

UniProt Comments for NR0B1	NR0B1: orphan nuclear receptor. Component of a cascade required for the development of the hypothalamic-pituitary-adrenal-gonadal axis. Acts as a coregulatory protein that inhibits the transcriptional activity of other nuclear receptors through heterodimeric interactions. May also have a role in the development of the embryo and in the maintenance of embryonic stem cell pluripotency. Homodimerizes with STF-1, NR5A2, NR0B2 and with COPS2. Shuttles between the cytoplasm and nucleus. Homodimers exits in the cytoplasm and in the nucleus. Homodimerization involved an interaction between amino and carboxy termini involving LXXLL motifs and steroid binding domain (AF-2 motif). Heterodimerizes with STF-1 and NROB2 through its N-terminal LXXLL motifs. Defects in NR0B1 are the cause of congenital X-linked adrenal hypoplasia. Two alternatively spliced human isoforms have been described. Protein type: Nuclear receptor Chromosomal Location of Human Ortholog: Xp21.3 Cellular Component: nucleoplasm; polysomal ribosome; membrane; cytoplasm; nucleus Molecular Function: protein domain specific binding; DNA hairpin binding; protein binding; ligand-dependent nuclear receptor activity; protein homodimerization activity; DNA binding; AF-2 domain binding; RNA binding; sequence-specific DNA binding; steroid hormone receptor activity; transcription corepressor activity; transcription factor binding; steroid hormone receptor binding Biological Process: transcription initiation from RNA polymerase II promoter; hypothalamus development; negative regulation of steroid hormone receptor signaling pathway; intracellular receptor-mediated signaling pathway; gonad development; adrenal gland development; negative regulation of transcription factor activity; male gonad development; Sertoli cell differentiation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of cell differentiation; protein localization; Leydig cell differentiation; pituitary gland development; male sex determination; steroid hormone mediated signaling; spermatogenesis; gene expression; negative regulation of transcription, DNA-dependent; steroid biosynthetic process Disease: 46,xy Sex Reversal 2; Adrenal Hypoplasia, Congenital
Research Articles on NR0B1	**1.** results suggest a previously unknown DAX-1/beta-Catenin molecular network controlling HCC development
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