

NR0B2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11075c**Specification**

NR0B2 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q15466](#)**NR0B2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 8431**Other Names**

Nuclear receptor subfamily 0 group B member 2, Orphan nuclear receptor SHP, Small heterodimer partner, NR0B2, SHP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NR0B2 Antibody (Center) Blocking peptide - Protein Information**Name** NR0B2**Synonyms** SHP**Function**

Transcriptional regulator that acts as a negative regulator of receptor-dependent signaling pathways (By similarity). Specifically inhibits transactivation of the nuclear receptor with which it interacts (By similarity). Inhibits transcriptional activity of NEUROD1 on E-box-containing promoter by interfering with the coactivation function of the p300/CBP-mediated transcription complex for NEUROD1 (PubMed:14752053). Essential component of the liver circadian clock which via its interaction with NR1D1 and RORG regulates NPAS2-mediated hepatic lipid metabolism (By similarity). Regulates the circadian expression of cytochrome P450 (CYP) enzymes (By similarity). Represses: NR5A2 and HNF4A to down-regulate CYP2C38, NFLI3 to up-regulate CYP2A5, BHLHE41/HNF1A axis to up-regulate CYP1A2, CYP2E1 and CYP3A11, and NR1D1 to up-regulate CYP2B10, CYP4A10 and CYP4A14 (By similarity).

Cellular Location

Nucleus. Cytoplasm Note=Colocalizes with NEUROD1 in the nucleus

Tissue Location

Liver. Low levels of expression were detected in heart and pancreas.

NR0B2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NR0B2 Antibody (Center) Blocking peptide - Images**NR0B2 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene is an unusual orphanreceptor that contains a putative ligand-binding domain but lacks aconventional DNA-binding domain. The gene product is a member ofthe nuclear hormone receptor family, a group of transcriptionfactors regulated by small hydrophobic hormones, a subset of whichdo not have known ligands and are referred to as orphan nuclearreceptors. The protein has been shown to interact with retinoid andthyroid hormone receptors, inhibiting their ligand-dependenttranscriptional activation. In addition, interaction with estrogenreceptors has been demonstrated, leading to inhibition of function.Studies suggest that the protein represses nuclear hormonereceptor-mediated transactivation via two separate steps:competition with coactivators and the direct effects of itstranscriptional repressor function.

NR0B2 Antibody (Center) Blocking peptide - References

Zhou, T., et al. J. Biol. Chem. 285(32):24871-24881(2010)Roberts, K.E., et al. Gastroenterology 139(1):130-139(2010)Kim, K., et al. Biochem. J. 427(3):413-422(2010)Yang, Z., et al. J. Int. Med. Res. 38(1):142-149(2010)Ondracek, C.R., et al. J. Virol. 83(23):12535-12544(2009)