

NR5A2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17000c**Specification**

NR5A2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O00482](#)**NR5A2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2494**Other Names**

Nuclear receptor subfamily 5 group A member 2, Alpha-1-fetoprotein transcription factor, B1-binding factor, hB1F, CYP7A promoter-binding factor, Hepatocytic transcription factor, Liver receptor homolog 1, LRH-1, NR5A2, B1F, CPF, FTF

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.

NR5A2 Antibody (Center) Blocking Peptide - Protein Information**Name** NR5A2**Synonyms** B1F, CPF, FTF**Function**

Nuclear receptor that acts as a key metabolic sensor by regulating the expression of genes involved in bile acid synthesis, cholesterol homeostasis and triglyceride synthesis. Together with the oxysterol receptors NR1H3/LXR-alpha and NR1H2/LXR-beta, acts as an essential transcriptional regulator of lipid metabolism. Plays an anti-inflammatory role during the hepatic acute phase response by acting as a corepressor: inhibits the hepatic acute phase response by preventing dissociation of the N-Cor corepressor complex (PubMed:20159957). May be responsible for the liver-specific activity of enhancer II, probably in combination with other hepatocyte transcription factors. Key regulator of cholesterol 7-alpha-hydroxylase gene (CYP7A) expression in liver. May also contribute to the regulation of pancreas-specific genes and play important roles in embryonic development. Activates the transcription of CYP2C38 (By similarity).

Cellular Location

Nucleus.

Tissue Location

Abundantly expressed in pancreas, less in liver, very low levels in heart and lung. Expressed in the Hep-G2 cell line Isoform 1 and isoform 2 seem to be present in fetal and adult liver and Hep-G2 cells

NR5A2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NR5A2 Antibody (Center) Blocking Peptide - Images**NR5A2 Antibody (Center) Blocking Peptide - Background**

NR5A2 binds to the sequence element 5'-AACGACCGACCTTGAG-3' of the enhancer II of hepatitis B virus genes, a critical cis-element of their expression and regulation. May be responsible for the liver-specific activity of enhancer II, probably in combination with other hepatocyte transcription factors. Key regulator of cholesterol 7-alpha-hydroxylase gene (CYP7A) expression in liver. May also contribute to the regulation of pancreas-specific genes and play important roles in embryonic development.

NR5A2 Antibody (Center) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Yazawa, T., et al. Mol. Endocrinol. 24(3):485-496(2010) Petersen, G.M., et al. Nat. Genet. 42(3):224-228(2010) Venteclef, N., et al. Genes Dev. 24(4):381-395(2010)