

Basic Information

Product Name	Anti-HNF4A Antibody (Clone#OTI8B8)
Gene Name	HNF4A
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Human recombinant protein fragment corresponding to amino acids 1-315 of human HNF4A(NP_849180) produced in E.coli.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Dilution Ratios	Western blot (WB):1:2000

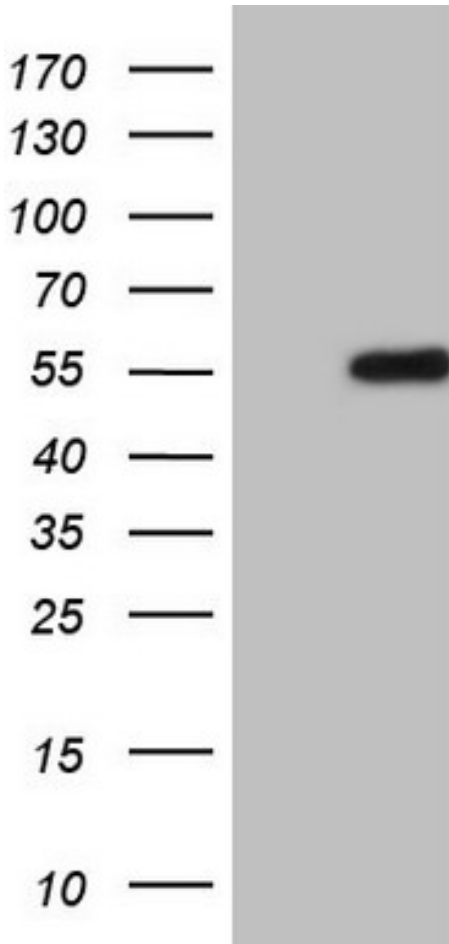
Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

Hepatocyte nuclear factor 4 alpha (HNF4A), also known as NR2A1, is a nuclear receptor that in humans is encoded by the HNF4A gene. It is mapped to 20q13.12. HNF4A is a nuclear transcription factor that binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene plays a role in development of the liver, kidney, and intestines. HNF4A is required for the PXR and CAR-mediated transcriptional activation of CYP3A4. This gene also plays a pivotal role in the expression and synthesis of SHBG, an important glycoprotein made primarily in the liver, which in addition to lowering insulin-resistance also serves in reducing levels of free Oestrogen as-well as prolonging the half-life of Testosterone.

Selected Validation Data



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HNF4A (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HNF4A.