

## Human HNF-4α/NR2A1 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 843716 Catalog Number: IC4605V

100 µg

DESCRIPTION			
Species Reactivity	y Human		
Specificity	Detects human HNF-4α/NR2A1 in ELISAs and Western blots.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 843716		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E. coli</i> -derived recombinant human HNF-4α/NR2A1 Val130-Ser330 Accession # P41235		
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

APPLICATIONS  Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
Intracellular Staining by Flow Cytometry	0.25-1 μg/10 <sup>6</sup> cells	BG01V human embryonic stem cell line differentiated to endodermal cells (StemXVivo Endoderm Kit, Catalog # SC019B) and HepG2 human hepatocellular carcinoma cell line fixed and permeabilized with FlowX FoxP3/Transcription Factor Fixation & Permeabilization Buffer Kit (Catalog # FC012)		

PREPARATION AND STORAGE			
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Protect from light. Do not freeze.  • 12 months from date of receipt, 2 to 8 °C as supplied.		

## **BACKGROUND**

HNF-4α is a transcription factor that binds DNA as a homodimer. HNF-4α is important in liver, kidney, and intestinal development. It has also been intensely studied as one of a variety of genes responsible for diabetes mellitus. HNF-4α has been shown in knock out mice to be essential for the morphogenic and functional differentiation of hepatocytes. HNF-4α is a dominant regulator of epithelial phenotypes able to drive the mesenchymal-to-epithelial transition when expressed in fibroblasts.

## PRODUCT SPECIFIC NOTICES

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