Human HNF-4α/NR2A1
Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 843716

Catalog Number: IC4605N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HNF-4α/NR2A1 in ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 843716
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human HNF-4α/NR2A1 Val130-Ser330 Accession # P41235
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 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.

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