

Monoclonal Anti-human HNF4 α /NR2A1 Antibody

ORDERING INFORMATION

Catalog Number: PP-H6939-00

Clone: H6939

GenBank: AY680696

Ig Class: mouse IgG₁

Volume: 100 μ L

Concentration: 1 mg/mL

Formulation: A liquid formulation in physiologic saline with 0.1% NaN₃

Storage: $\leq -20^{\circ}$ C

Specificity: human HNF4 α (isoforms 7-9)

Applications: Western Blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Hepatocyte Nuclear Factor 4 alpha (HNF4, HNF4 α ; NR2A1) is a member of the Orphan Nuclear Receptor family. HNF4 α is expressed in the liver, kidney, intestine and pancreas. Mutation of HNF4 α in humans has been associated with Maturity-Onset Diabetes of the Young type 1 (MODY1). HNF4 binds to DNA as an exclusive homodimer. The HNF4 α gene is alternatively spliced and may generate up to nine different isoforms, HNF4 α 1 through HNF4 α 9.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with synthetic peptide human HNF4 α (amino acids 1-16) and mouse myeloma cells (NS-1). The IgG fraction of the ascites fluid was purified by ammonium sulfate fractionation.

Formulation

A liquid formulation in physiologic saline with 0.1% NaN₃.

Storage

This antibody is stable for greater than six months when held at -20° C in a **manual defrost freezer** or at -70° C. Upon thawing, the antibody can be stored at $2-8^{\circ}$ C for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human HNF4 α (isoforms 7-9) and cross-reacts with mouse and rat HNF4 α (isoforms 7-9). Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 μ g/mL under reducing conditions and at 3 μ g/mL under non-reducing conditions with the appropriate secondary reagents to detect human HNF4 α .

Direct ELISA - This antibody can be used at 3 μ g/mL with the appropriate secondary reagents to detect human HNF4 α .

Immunohistochemistry - This antibody can be used at 10 - 20 μ g/mL with the appropriate secondary reagents to detect human HNF4 α .

Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Optimal dilutions should be determined by each laboratory for each application.

Caution: Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.



Manufactured by:
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9/16

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