

Anti human HNF4 alpha7 mouse monoclonal antibody

HNF4 alpha: Hepatocyte Nuclear Factor 4 alpha

Code No PP-H6939-00

Clone No. H6939

Lot. A-2

Concentration 1 mg/mL

Volume 100 uL

Ig Class G1

Description Hepatocyte nuclear factor 4 alpha (HNF4, HNF4a; NR2A1) is a member of orphan nuclear receptor. HNF4a is expressed in the liver, kidney, intestine and pancreas. Mutation of HNF4a in humans has been associated with maturity-onset diabetes of the young type 1 (MODY1). HNF4 binds to DNA as an exclusive homodimer. The HNF4a gene is alternatively spliced and may generate up to nine different isoforms, HNF4a1 through HNF4a9.

Nomenclature NR2A1

Genbank AY680696

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with a synthetic peptide derived from human HNF4 alpha (1-16 a.a.)

Specificity This antibody specifically recognizes human HNF4 alpha 7- 9 and cross reacts with mouse and rat HNF4 alpha 7- 9.

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% NaN₃ as a preservative.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1 ug/mL

Non reducing Western Blot 3 ug/mL

ELISA 3 ug/mL (A450=0.75)

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry 10-20 ug/mL



Human
Large intestine
paraffin section



Rat
Large intestine
paraffin section

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference Tanaka T, *et al.* J. Pathol. 2006; 208(5): 662-72
Oshima T, *et al.* Patho Int. 2007; 57(2): 82-90

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

FOR RESEARCH ONLY. NOT FOR USE IN HUMANS.

Not for Diagnostic or Therapeutic use. Purchase of this product does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written consent of Perseus Proteomics Inc. is prohibited.

MADE IN JAPAN

July 1, 2023