

Anti human HNF4 alpha mouse monoclonal antibody

HNF4 alpha: Hepatocyte Nuclear Factor 4 alpha

Code No PP-K9218-00

Clone No. K9218

Lot. A-3

Concentration 1 mg/mL

Volume 100 uL

Ig Class G2a

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 X87870

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 Baculovirus-expressed recombinant human HNF4 alpha (3-49 aa).

Specificity This antibody specifically recognizes human HNF4 alpha 1-6 and cross reacts with mouse and rat HNF4 alpha 1-6.

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 Not yet tested

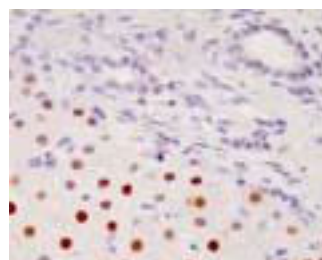
ELISA 0.1 ug/mL

Immunoprecipitation Decide by use

Supershift Assay Decide by use

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry 10-20 ug/mL



Human Liver
Hepatocyte
paraffin section



Rat Intestine
Epithelial cell
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 Jiang S, *et al.* Nucl Recept. 2003; 1(1): 5.
Kamiya A, *et al.* FEBS Lett. 2004; 578(1-2): 63-8.
Tanaka T, *et al.* J. Pathol. 2006; 208(5): 662-72.
Kojima K, *et al.* Pathology. 2006; 38(6): 548-54.
Oshima T, *et al.* Pathol 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.

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