

# Anti human HNF4 alpha7 mouse monoclonal antibody

HNF4 alpha: Hepatocyte Nuclear Factor 4 alpha

**Code No** PP-H6939-00

**Clone No.** H6939

**Lot.** A-1

**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% NaN<sub>3</sub> 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

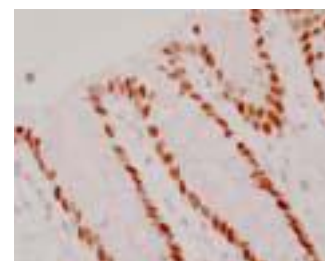
**Supershift Assay** Not yet tested

**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. 208, 662-672, 2006  
Oshima T, *et al.* Pathology International: 57, 82-90, 2007

**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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**MADE IN JAPAN**

Apr 24, 2008