

# Anti human HNF4 alpha mouse monoclonal antibody

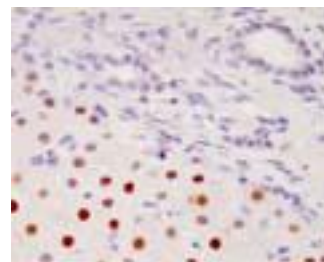
HNF4 alpha: Hepatocyte Nuclear Factor 4 alpha

<b>Code No</b>	PP-K9218-00
<b>Clone No.</b>	K9218
<b>Lot.</b>	A-3
<b>Concentration</b>	1 mg/mL
<b>Volume</b>	100 uL
<b>Ig Class</b>	G2a
<b>Description</b>	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.
<b>Nomenclature</b>	NR2A1
<b>Genbank</b>	X87870
<b>Origin</b>	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).
<b>Specificity</b>	This antibody specifically recognizes human HNF4 alpha 1- 6 and cross reacts with mouse and rat HNF4 alpha 1-6.
<b>Purification</b>	Ammonium sulfate fractionation
<b>Formulation</b>	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.

<b>Western Blot</b>	1 ug/mL
<b>Non reducing Western Blot</b>	Not yet tested
<b>ELISA</b>	0.1 ug/mL
<b>Immunoprecipitation</b>	Decide by use
<b>Supershift Assay</b>	Decide by use
<b>Chromatin immunoprecipitation</b>	Not yet tested
<b>Immunohistochemistry</b>	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.* Nuclear Receptor, 1: 5, 2003.  
Kamiya A, *et al.* FEBS Lett. 3; 578(1-2): 63-8, 2004.  
Tanaka T, *et al.* J. Pathol. 208, 662-672, 2006  
Kojima K, *et al.* Pathology, 38(6), 548-554, 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**

Feb 25, 2008