

## **HNF4A Antibody (monoclonal) (M04)**

Mouse monoclonal antibody raised against a partial recombinant HNF4A.

Catalog # AT2393a

### **Specification**

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#### **HNF4A Antibody (monoclonal) (M04) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">P41235</a>
Other Accession	<a href="#">NM_000457</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	52785

#### **HNF4A Antibody (monoclonal) (M04) - Additional Information**

**Gene ID** 3172

##### **Other Names**

Hepatocyte nuclear factor 4-alpha, HNF-4-alpha, Nuclear receptor subfamily 2 group A member 1, Transcription factor 14, TCF-14, Transcription factor HNF-4, HNF4A, HNF4, NR2A1, TCF14

##### **Target/Specificity**

HNF4A (NP\_000448, 324 a.a. ~ 423 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### **Dilution**

WB~~1:500~1000

##### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### **Precautions**

HNF4A Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

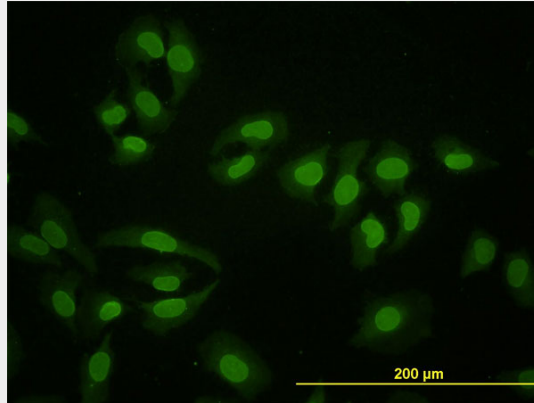
#### **HNF4A Antibody (monoclonal) (M04) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

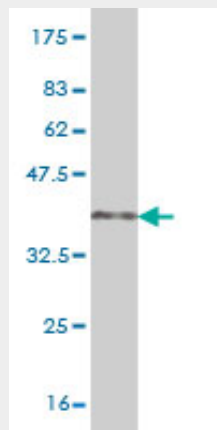
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

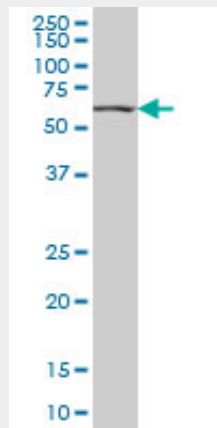
### HNF4A Antibody (monoclonal) (M04) - Images



Immunofluorescence of monoclonal antibody to HNF4A on HeLa cell. [antibody concentration 10 ug/ml]

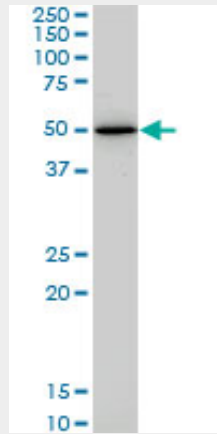


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .

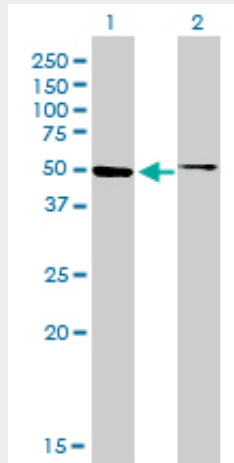


HNF4A monoclonal antibody (M04), clone 4E2 Western Blot analysis of HNF4A expression in

HepG2 ( (Cat # AT2393a )

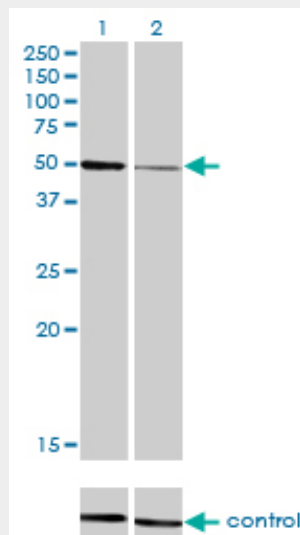


HNF4A monoclonal antibody (M04), clone 4E2. Western Blot analysis of HNF4A expression in Jurkat ( (Cat # AT2393a )

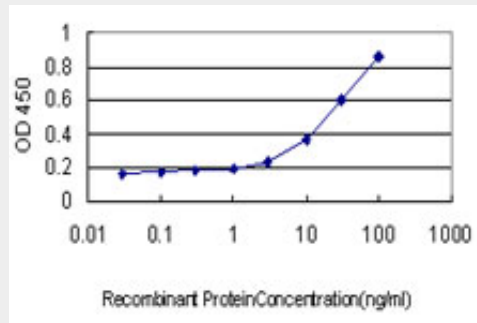


Western Blot analysis of HNF4A expression in transfected 293T cell line by HNF4A monoclonal antibody (M04), clone 4E2.

Lane 1: HNF4A transfected lysate(51.6 KDa).  
Lane 2: Non-transfected lysate.



Western blot analysis of HNF4A over-expressed 293 cell line, cotransfected with HNF4A Validated Chimera RNAi ( (Cat # AT2393a )



Detection limit for recombinant GST tagged HNF4A is approximately 1ng/ml as a capture antibody.

### **HNF4A Antibody (monoclonal) (M04) - Background**

The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants.

### **HNF4A Antibody (monoclonal) (M04) - References**

COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. *Diabetes*, 2010 Aug 3. PMID 20682687. Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086. Variants in hepatocyte nuclear factor 4alpha gene promoter region and type 2 diabetes risk in Chinese. Chen Z, et al. *Exp Biol Med (Maywood)*, 2010 Jul. PMID 20558840. The ERK1/2-hepatocyte nuclear factor 4alpha axis regulates human ABCC6 gene expression in hepatocytes. de Boussac H, et al. *J Biol Chem*, 2010 Jul 23. PMID 20463007. Combining genetic markers and clinical risk factors improves the risk assessment of impaired glucose metabolism. Ruchat SM, et al. *Ann Med*, 2010 Apr. PMID 20384434.