

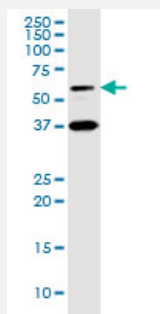
CX Grade

HNF4A monoclonal antibody (M04J), clone 4E2

Catalog # H00003172-M04J

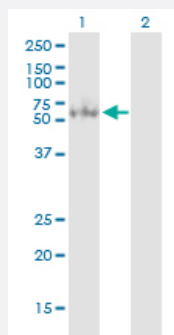
Size 100 ug

Applications



Western Blot (Cell lysate)

HNF4A monoclonal antibody (M04J), clone 4E2. Western Blot analysis of HNF4A expression in HepG2.

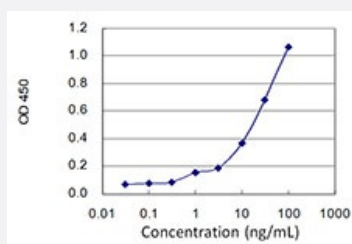


Western Blot (Transfected lysate)

Western Blot analysis of HNF4A expression in transfected 293T cell line by HNF4A monoclonal antibody (M04J), clone 4E2.

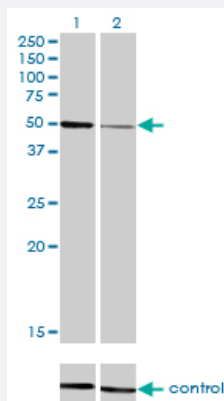
Lane 1: HNF4A transfected lysate (Predicted MW: 51.6 kDa).

Lane 2: Non-transfected lysate.



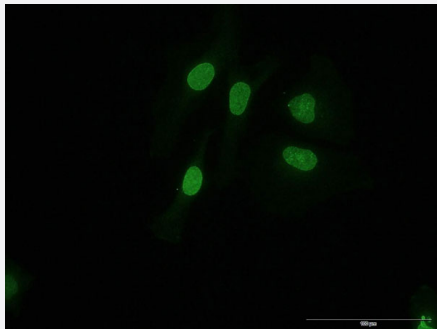
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HNF4A is 0.3 ng/ml as a capture antibody.



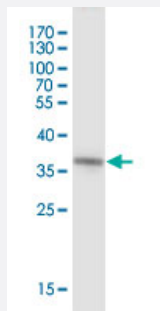
RNAi Knockdown (Antibody validated)

Western blot analysis of HNF4A over-expressed 293 cell line, cotransfected with HNF4A Validated Chimera RNAi (Cat # H00003172-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with HNF4A monoclonal antibody (M04), clone 4E2 (Cat # H00003172-M04). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

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



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant HNF4A. This product is belong to Cell Culture Grade Antibody (CX Grade).

Immunogen

HNF4A (NP_000448.3, 324 a.a. ~ 423 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

NDRQYDSRGRFGELLLLLPTLQSITWQMIEQIQFIKLFGMAKIDNLLQEMLLGGSPSDAPHAHHPLH
PHLMQEHMGTNVIVANTMPHTLSNGQMCEWPRP

Host

Mouse

Reactivity

Human

Preparation Method

Cell Culture Production

Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

HNF4A monoclonal antibody (M04J), clone 4E2. Western Blot analysis of HNF4A expression in HepG2.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of HNF4A expression in transfected 293T cell line by HNF4A monoclonal antibody (M04J), clone 4E2.

Lane 1: HNF4A transfected lysate (Predicted MW: 51.6 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HNF4A is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of HNF4A over-expressed 293 cell line, cotransfected with HNF4A Validated Chimera RNAi (Cat # H00003172-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with HNF4A monoclonal antibody (M04), clone 4E2 (Cat # H00003172-M04). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- Immunofluorescence

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

Gene Info — HNF4A

Entrez GeneID	3172
GeneBank Accession#	NM_000457.4
Protein Accession#	NP_000448.3
Gene Name	HNF4A
Gene Alias	FLJ39654, HNF4, HNF4a7, HNF4a8, HNF4a9, MODY, MODY1, NR2A1, NR2A21, TCF, TCF14
Gene Description	hepatocyte nuclear factor 4, alpha
Omim ID	125850 125853 600281
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	HNF4-alpha OTTHUMP00000031060 OTTHUMP00000031062 hepatic nuclear factor 4 alpha hepatocyte nuclear factor 4 alpha transcription factor-14

Pathway

- [Maturity onset diabetes of the young](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)

- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Fetal Macrosomia](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [Hyperinsulinism](#)
- [Hyperlipidemias](#)
- [Hypoglycemia](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Obesity](#)
- [Osteoporosis](#)

- [Persistent Hyperinsulinemia Hypoglycemia of Infancy](#)
- [Prediabetic State](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)