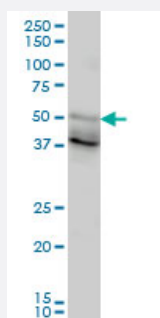


FOXA2 monoclonal antibody (M10), clone 1C7

Catalog # H00003170-M10

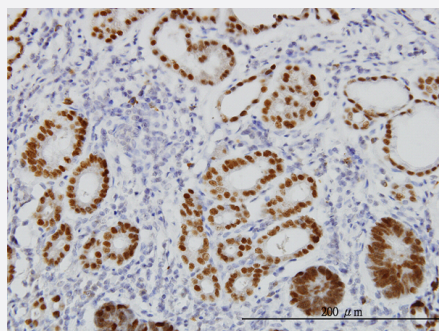
Size 100 ug

Applications



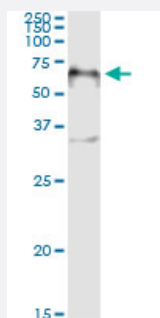
Western Blot (Cell lysate)

FOXA2 monoclonal antibody (M10), clone 1C7 Western Blot analysis of FOXA2 expression in HepG2 (Cat # L019V1).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to FOXA2 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1 ug/ml]

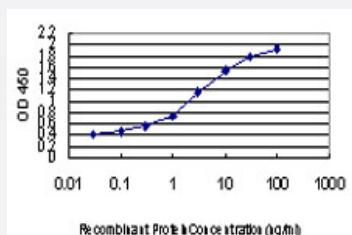


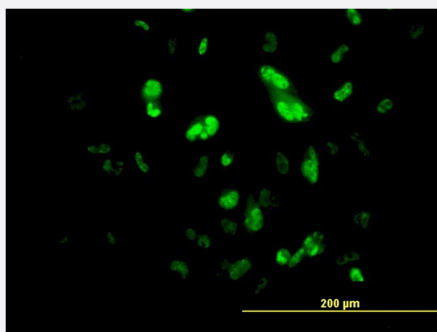
Immunoprecipitation

Immunoprecipitation of FOXA2 transfected lysate using anti-FOXA2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with FOXA2 MaxPab rabbit polyclonal antibody.

Sandwich ELISA (Recombinant protein)

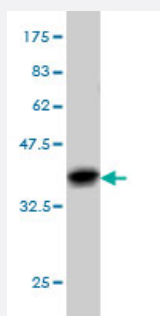
Detection limit for recombinant GST tagged FOXA2 is approximately 0.03ng/ml as a capture antibody.





Immunofluorescence

Immunofluorescence of monoclonal antibody to FOXA2 on HepG2 cell.
[antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.19 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant FOXA2.
Immunogen	FOXA2 (NP_068556, 363 a.a. ~ 457 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	HLKPEHHYAFNHPFSINNLMSSSEQHHHSHHHHQPHKMDLKAYEQVMHYPGYGSPMPGSLAMG PVTNKTGLDASPLAADTSYYQGVYSRPIMNSS
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.19 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)

FOXA2 monoclonal antibody (M10), clone 1C7 Western Blot analysis of FOXA2 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to FOXA2 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of FOXA2 transfected lysate using anti-FOXA2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with FOXA2 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FOXA2 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to FOXA2 on HepG2 cell. [antibody concentration 10 ug/ml]

Gene Info — FOXA2

Entrez GeneID	3170
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GeneBank Accession#	NM_021784
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Protein Accession#	NP_068556
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Gene Name	FOXA2
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Gene Alias	HNF3B, MGC19807, TCF3B
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Gene Description	forkhead box A2
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Omim ID	600288
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. This gene has been linked to sporadic cases of maturity-onset diabetes of the young. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000030409 OTTHUMP00000030410 hepatic nuclear factor-3-beta hepatocyte nuclear factor 3, beta

Publication Reference

- [Generation and characterization of a human induced pluripotent stem cell line heterozygous for a NOTCH1 mutation \(NCHi014-A\).](#)

Mona Aljuhani, Talita Z Choudhury, Yang Yu, Shiqiao Ye, Mingtao Zhao, Vidu Garg.

Stem Cell Research 2024 Feb; 74:103281.

Application: ICC, Human, Human Stem Cells

- [Characterization of an induced pluripotent stem cell line NCHi011-A from a 23-year-old female with Alagille Syndrome harboring a heterozygous JAG1 pathogenic variant.](#)

Isaac Stanberry, David Cunningham, Shiqiao Ye, Matthew Alonzo, Ming-Tao Zhao, Vidu Garg, Brenda Lilly.

Stem Cell Research 2023 Sep; 72:103213.

Application: IF, Human, NCHi011-A cells

- [Generation of iPSC line NCHi012-A from a patient with Alagille syndrome and heterozygous pathogenic variant in the JAG1 gene.](#)

David Cunningham, Isaac Stanberry, Shiqiao Ye, Matthew Alonzo, Ming-Tao Zhao, Vidu Garg, Brenda Lilly.

Stem Cell Research 2023 Sep; 71:103177.

Application: IF, Human, iPSC NCHi012-A cells

- [Creation of iPSC line NCHi004-A from a patient with down syndrome and congenital heart defects.](#)

Matthew Alonzo, Shiqiao Ye, Brian Beckman, Karen Texter, Vidu Garg, Ming-Tao Zhao.

Stem Cell Research 2023 Sep; 71:103156.

Application: IF, Human, iPSC cells

- [Generation of an induced pluripotent stem cell line \(NCHi010-A\) from a 6-year-old female with down syndrome and without congenital heart disease.](#)

Yang Yu, Matthew Alonzo, Shiqiao Ye, Anne Fang, Kandamurugu Manickam, Vidu Garg, Ming-Tao Zhao.

Stem Cell Research 2023 Sep; 71:103155.

Application: IF, Human, iPSC cells

- [Establishment of NCHi009-A, an iPSC line from a patient with hypoplastic left heart syndrome \(HLHS\) carrying a heterozygous NOTCH1 mutation.](#)

Subhodip Adhicary, Shiqiao Ye, Hui Lin, Karen Texter, Vidu Garg, Ming-Tao Zhao.

Stem Cell Research 2023 Feb; 66:103013.

Application: IF, Human, iPS cells

- [Generation of an induced pluripotent stem cell line NCHi003-A from a 11-year-old male with pulmonary atresia with intact ventricular septum \(PA-IVS\).](#)

Javier Contreras, Matthew Alonzo, Shiqiao Ye, Hui Lin, Lumariz Hernandez-Rosario, Kim L McBride, Karen Texter, Vidu Garg, Ming-Tao Zhao.

Stem Cell Research 2022 Oct; 64:102893.

Application: IF, Human, NCHi003-A cells (Differentiated from peripheral blood mononuclear cells)

- [Characterization of an iPSC line NCHi006-A from a patient with hypoplastic left heart syndrome \(HLHS\).](#)

Matthew Alonzo, Javier Contreras, Shiqiao Ye, Hui Lin, Lumariz Hernandez-Rosario, Kim L McBride, Karen Texter, Vidu Garg, Ming-Tao Zhao.

Stem Cell Research 2022 Aug; 64:102892.

Application: IF, Human, iPSC-derived endoderm

- [Spotting-based differentiation of functional dopaminergic progenitors from human pluripotent stem cells.](#)

Jisun Kim, Jeha Jeon, Bin Song, Nayeon Lee, Sanghyeok Ko, Young Cha, Pierre Leblanc, Hyemyung Seo, Kwang-Soo Kim.

Nature Protocols 2022 Mar; 17(3):890.

Application: IF, Human, Human midbrain dopamine progenitors (H9 cells)

Pathway

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

Disease

- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)