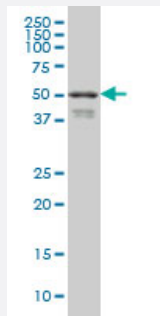


FOXA2 monoclonal antibody (M01), clone 7E6

Catalog # H00003170-M01

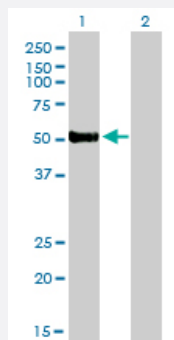
Size 100 ug

Applications



Western Blot (Cell lysate)

FOXA2 monoclonal antibody (M01), clone 7E6 Western Blot analysis of FOXA2 expression in HepG2 (Cat # L019V1).

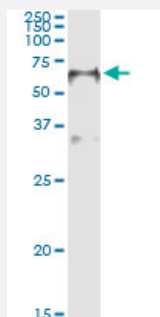


Western Blot (Transfected lysate)

Western Blot analysis of FOXA2 expression in transfected 293T cell line by FOXA2 monoclonal antibody (M01), clone 7E6.

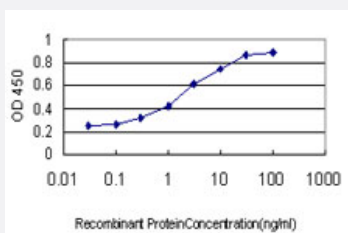
Lane 1: FOXA2 transfected lysate(48.3 KDa).

Lane 2: Non-transfected lysate.



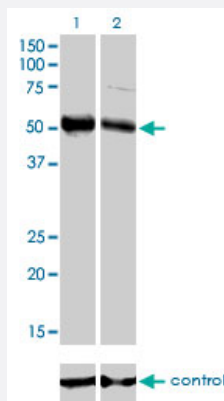
Immunoprecipitation

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



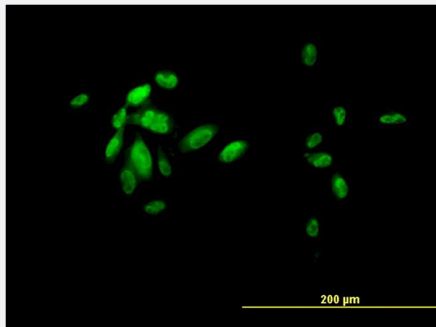
Sandwich ELISA (Recombinant protein)

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



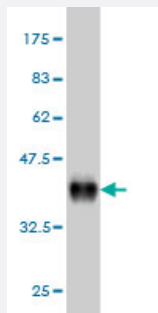
RNAi Knockdown (Antibody validated)

Western blot analysis of FOXA2 over-expressed 293 cell line, cotransfected with FOXA2 Validated Chimera RNAi (Cat # H00003170-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with FOXA2 monoclonal antibody (M01), clone 7E6 (Cat # H00003170-M01). GAPDH (36.1 kDa) used as specificity and loading control.



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	HLKPEHHYAFNHPFSINNLMSSSEQQHHSHHHHQPHKMDLKAYEQVMHYPGYGSPMPGSLAMG 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 (M01), clone 7E6 Western Blot analysis of FOXA2 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of FOXA2 expression in transfected 293T cell line by FOXA2 monoclonal antibody (M01), clone 7E6.

Lane 1: FOXA2 transfected lysate(48.3 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[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

- RNAi Knockdown (Antibody validated)

Western blot analysis of FOXA2 over-expressed 293 cell line, cotransfected with FOXA2 Validated Chimera RNAi (Cat # H00003170-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with FOXA2 monoclonal antibody (M01), clone 7E6 (Cat # H00003170-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- Immunofluorescence

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

Gene Info — FOXA2

Entrez GeneID [3170](#)

GeneBank Accession# [NM_021784](#)

Protein Accession# [NP_068556](#)

Gene Name FOXA2

Gene Alias HNF3B, MGC19807, TCF3B

Gene Description forkhead box A2

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

- [Pioneer and PRDM transcription factors coordinate bivalent epigenetic states to safeguard cell fate.](#)

Satoshi Matsui, Marissa Granitto, Morgan Buckley, Katie Ludwig, Sandra Koigi, Joseph Shiley, William J Zacharias, Christopher N Mayhew, Hee-Woong Lim, Makiko Iwafuchi.

Molecular Cell 2024 Feb; 84(3):476.

Application: Co-IP, WB, Human, Human induced pluripotent stem cells (hPSCs)

- [SOX transcription factors direct TCF-independent WNT/ \$\beta\$ -catenin responsive transcription to govern cell fate in human pluripotent stem cells.](#)

Shreyasi Mukherjee, David M Luedeke, Leslie McCoy, Makiko Iwafuchi, Aaron M Zorn.

Cell Reports 2022 Aug; 40(8):111247.

Application: IF, Human, HEK 293T cells

- [Generation of human antral and fundic gastric organoids from pluripotent stem cells.](#)

Broda TR, McCracken KW, Wells JM.

Nature Protocols 2019 Jan; 14(1):28.

Application: IF, Human, Human pluripotent stem cells

- [Tumour resistance in induced pluripotent stem cells derived from naked mole-rats.](#)

Miyawaki S, Kawamura Y, Oiwa Y, Shimizu A, Hachiya T, Bono H, Koya I, Okada Y, Kimura T, Tsuchiya Y, Suzuki S, Onishi N, Kuzumaki N, Matsuzaki Y, Narita M, Ikeda E, Okanoya K, Seino K, Saya H, Okano H, Miura K.

Nature Communications 2016 May; 7:11471.

Application: IF, Mouse, Embryoid body

Pathway

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

Disease

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