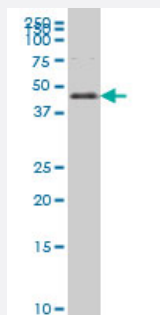


FOXA2 monoclonal antibody (M12), clone 6C12

Catalog # H00003170-M12

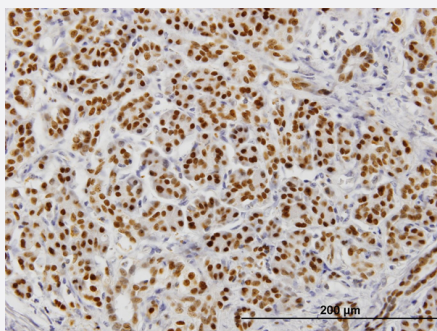
Size 100 ug

Applications



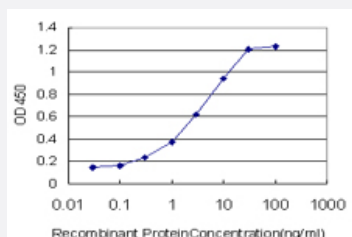
Western Blot (Cell lysate)

FOXA2 monoclonal antibody (M12), clone 6C12 Western Blot analysis of FOXA2 expression in K-562 (Cat # L009V1).



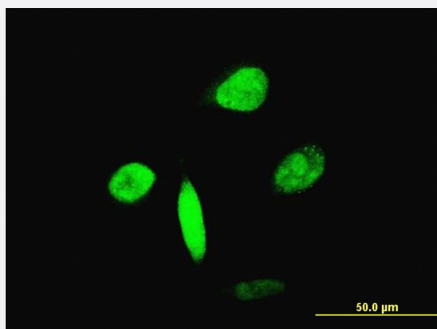
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to FOXA2 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 0.5 ug/ml]



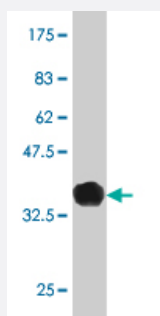
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FOXA2 is approximately 0.3ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to FOXA2 on HeLa 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	IgG1 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 (M12), clone 6C12 Western Blot analysis of FOXA2 expression in K-562 (Cat # L009V1).

[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 pancreas. [antibody concentration 0.5 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FOXA2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to FOXA2 on HeLa 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

- [An optimized Nurr1 agonist provides disease-modifying effects in Parkinson's disease models.](#)

Woori Kim, Mohit Tripathi, Chunhyung Kim, Satyapavan Vardhini, Young Cha, Shamseer Kulangara Kandi, Melissa Feitosa, Rohit Kholiya, Eric Sah, Anuj Thakur, Yehan Kim, Sanghyeok Ko, Kaiya Bhatia, Sunny Manohar, Young-Bin Kong, Gagandeep Sindhu, Yoon-Seong Kim, Bruce Cohen, Diwan S Rawat, Kwang-Soo Kim.

Nature Communications 2023 Jul; 14(1):4283.

Application: WB-Ce, Mouse, MN9D cells

- [An artificial LAMA2-GelMA hydrogel microenvironment for the development of pancreatic endocrine progenitors.](#)

Yan Huang, Yang Xu, Jiachen Zhu, Jian Wan, Yicheng Xiong, Zhaoyan Jiang, Shajun Zhu, Qingsong Guo, Yuxi Li, Yuhua Lu, Bin Yu, Yibing Guo, Zhiwei Wang, Yumin Yang.

Biomaterials 2022 Dec; 291:121882.

Application: IF, Human, Posterior foregut cells (differentiated from H9 cells)

- [An iPSC line derived from a human acute myeloid leukemia cell line \(HL-60-iPSC\) retains leukemic abnormalities and displays myeloid differentiation defects.](#)

Amanda E Yamasaki, Jane N Warshaw, Beverly L Kyalwazi, Hiroko Matsui, Kristen Jepsen, Athanasia D Panopoulos.

Stem Cell Research 2020 Dec; 49:102096.

Application: IF, Human, HL-60 cells

- [Differential requirements of androgen receptor in luminal progenitors during prostate regeneration and tumor initiation.](#)

Chee Wai Chua, Nusrat J Epsi, Eva Y Leung, Shouhong Xuan, Ming Lei, Bo Li, Sarah K Bergren, Hanina Hibshoosh, Antonina Mitrofanova, Michael M Shen.

Elife 2018 Jan; 7:e28768.

Application: IHC, Mouse, Prostate

Pathway

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

Disease

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