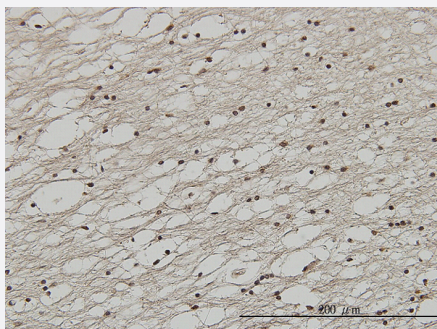


FOXC2 monoclonal antibody (M02), clone 2H3

Catalog # H00002303-M02

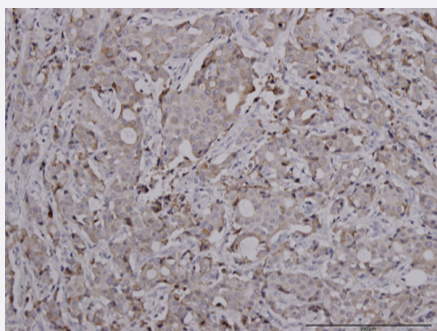
Size 100 ug

Applications



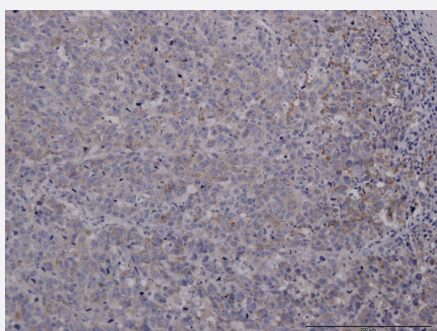
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to FOXC2 on formalin-fixed paraffin-embedded human lateral ventricle wall. [antibody concentration 3 ug/ml]



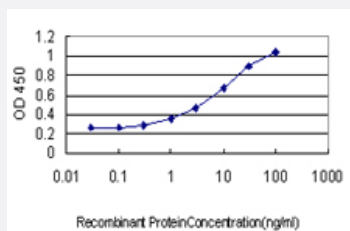
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to FOXC2 on formalin-fixed paraffin-embedded human breast cancer. [antibody concentration 3 ug/ml]



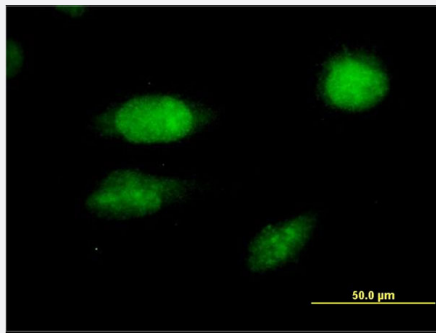
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to FOXC2 on formalin-fixed paraffin-embedded human hepatocellular carcinoma. [antibody concentration 3 ug/ml]



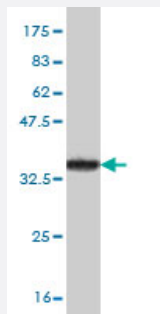
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FOXC2 is approximately 0.3ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to FOXC2 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (34.65 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant FOXC2.
Immunogen	FOXC2 (NP_005242.1, 421 a.a. ~ 501 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AASWYLNHSGDLNHLPGHTFAAQQQTFPNVREMFNSHRLGIENSTLGESQVSGNASCQLPYRST PPLYRHAAPYSYDCTKY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (89); Rat (90)
Isotype	IgG2b Lambda
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.65 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 (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to FOXC2 on formalin-fixed paraffin-embedded human lateral ventricle wall. [antibody concentration 3 ug/ml]

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to FOXC2 on formalin-fixed paraffin-embedded human breast cancer. [antibody concentration 3 ug/ml]

[Protocol Download](#)

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

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[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FOXC2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to FOXC2 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — FOXC2

Entrez GeneID	2303
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GeneBank Accession#	NM_005251
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Protein Accession#	NP_005242.1
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Gene Name	FOXC2
Gene Alias	FKHL14, LD, MFH-1, MFH1
Gene Description	forkhead box C2 (MFH-1, mesenchyme forkhead 1)
Omim ID	153000 153200 153300 153400 602402
Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the forkhead family of transcription factors which is characterized by a distinct DNA-binding forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the development of mesenchymal tissues. [provided by RefSeq]
Other Designations	MFH-1,mesenchyme forkhead 1 forkhead box C2 forkhead, Drosophila, homolog-like 14 forkhead-like 14

Publication Reference

- [FOXC2 expression and epithelial-mesenchymal phenotypes are associated with castration resistance, metastasis and survival in prostate cancer.](#)

Børretzen A, Gravdal K, Haukaas SA, Beisland C, Akslen LA, Halvorsen OJ.

The Journal of Pathology. Clinical Research 2019 Oct; 5(4):272.

Application: IHC-P, Human, Human prostate cancer

- [High expression of forkhead box protein C2 is associated with aggressive phenotypes and poor prognosis in clinical hepatocellular carcinoma.](#)

Shimoda Y, Ubukata Y, Handa T, Yokobori T, Watanabe T, Gantumur D, Hagiwara K, Yamanaka T, Tsukagoshi M, Igarashi T, Watanabe A, Kubo N, Araki K, Harimoto N, Katayama A, Hikino T, Sano T, Ogata K, Kuwano H, Shirabe K, Oyama T.

BMC Cancer 2018 May; 18(1):597.

Application: IHC-P, Human, Hepatocellular carcinomas

- [FOXC2 Expression is Associated with Tumor Proliferation and Invasion Potential in Oral Tongue Squamous Cell Carcinoma.](#)

Imayama N, Yamada SI, Yanamoto S, Naruse T, Matsushita Y, Takahashi H, Seki S, Fujita S, Ikeda T, Umeda M.

Pathology Oncology Research 2015 Jul; 21(3):783.

Application: IHC-P, Human, Tongue squamous cell carcinoma

- [MiR-520h-mediated FOXC2 regulation is critical for inhibition of lung cancer progression by resveratrol.](#)

Yu YH, Chen HA, Chen PS, Cheng YJ, Hsu WH, Chang YW, Chen YH, Jan Y, Hsiao M, Chang TY, Liu YH, Jeng YM, Wu CH, Huang MT, Su YH, Hung MC, Chien MH, Chen CY, Kuo ML, Su JL.

Oncogene 2013 Jan; 32(4):431.

Application: WB-Ce, WB-Tr, Human, CL1-5, A-549, H322, H520, H1435 cells

- [FOXC2 is a Novel Prognostic Factor in Human Esophageal Squamous Cell Carcinoma.](#)

Nishida N, Mimori K, Yokobori T, Sudo T, Tanaka F, Shibata K, Ishii H, Doki Y, Mori M.

Annals of Surgical Oncology 2011 Feb; 18(2):535.

Application: IHC-P, WB-Tr, Human, Human esophageal cancer, TE-8 cells

Disease

- [Breast cancer](#)
- [Cardiovascular Diseases](#)
- [Chylothorax](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Hyperlipidemias](#)
- [Insulin Resistance](#)
- [Lymphangiectasis](#)
- [Lymphedema](#)
- [Metabolic Syndrome X](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Polycystic Ovary Syndrome](#)
- [Renal Insufficiency](#)
- [Werner syndrome](#)