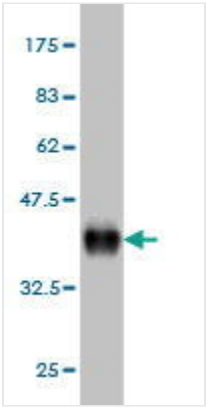
FOXA2 Antibody – Mouse Monoclonal

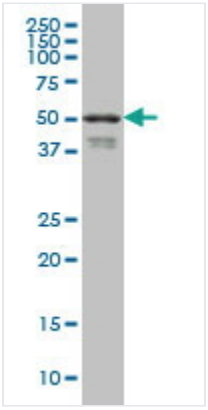
PRODUCT OVERVIEW

Product Name	FOXA2, Monoclonal Antibody
Full Product Name	FOXA2 (Hepatocyte Nuclear Factor 3-beta, HNF-3-beta, HNF-3B, Forkhead Box Protein A2, Transcription Factor 3B, TCF-3B, HNF3B, TCF3B), MGC19807) (Biotin)
Product Gene Name	anti-FOXA2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	7E6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human FOXA2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	Predicted: 51 kDa Observed: 54 kDa
OMIM	600288
3D Structure	ModBase 3D Structure for Q9Y261
Immunogen	Partial recombinant corresponding to aa363-457 from human FOXA2 (NP_068556) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	HLKPEHHYAFNHPFSINNLMSSEQQHHHSHHHHQPHKMDLKAYEQVMHYPGYGSPMPGSLAMGPVTNKTGLDASPLAADTSYYQGVYSRPIMNSS
Conjugate	Biotin
Product Categories/Family for anti-FOXA2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-FOXA2 antibody	ELISA (EIA), Immunofluorescence (IF), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-FOXA2 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.

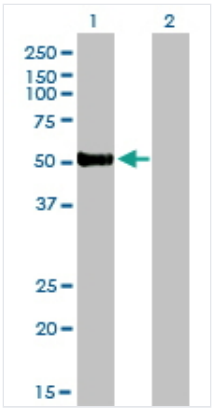
Related Product Information for anti-FOXA2 antibody	MBS6141949 is an antibody targeting FOXA2. Also known as FOXA2 (Hepatocyte Nuclear Factor 3-beta, HNF-3-beta, HNF-3B, Forkhead Box Protein A2, Transcription Factor 3B, TCF-3B, HNF3B, TCF3B), MGC19807) (Biotin). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-FOXA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



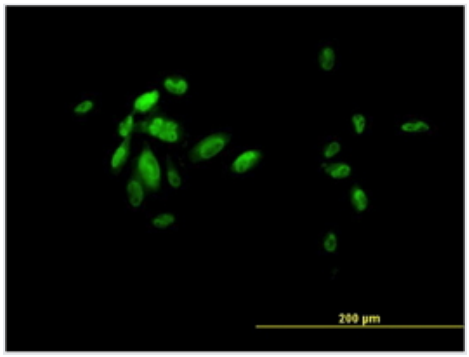
Western Blot (WB) of anti-FOXA2 antibody
Western Blot detection against Immunogen (36.19kD).



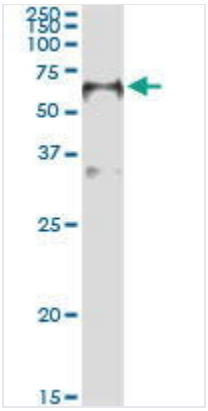
Western Blot (WB) of anti-FOXA2 antibody
FOXA2 monoclonal antibody Western Blot analysis of FOXA2 expression in HepG2.



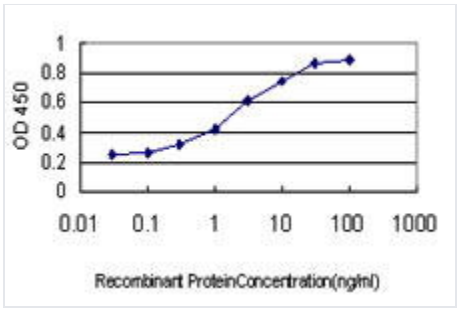
Western Blot (WB) of anti-FOXA2 antibody
Western Blot analysis of FOXA2 expression in transfected 293T cell line by FOXA2 monoclonal antibody Lane 1: FOXA2 transfected lysate (48.3kD). Lane 2: Non-transfected lysate.



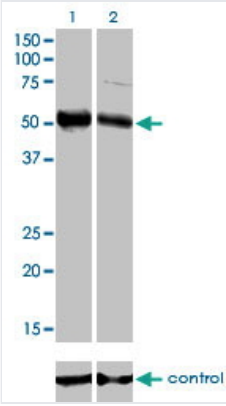
Immunofluorescence (IF) of anti-FOXA2 antibody
Immunofluorescence of monoclonal antibody to FOXA2 on HepG2 cell. [antibody concentration 10ug/ml]



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



Testing Data of anti-FOXA2 antibody
Detection limit for recombinant GST tagged FOXA2 is ~0.03ng/ml as a capture antibody.



Western Blot (WB) of anti-FOXA2 antibody
Western blot analysis of FOXA2 over-expressed 293 cell line, cotransfected with FOXA2 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with FOXA2 monoclonal antibody GAPDH (36.1kD) used as specificity and loading control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXA2. It may not necessarily be applicable to this product.

NCBI GI #	194394143
NCBI GeneID	3170
NCBI Accession #	NP_068556
UniProt Primary Accession #	Q9Y261
UniProt Secondary Accession #	Q8WUW4; Q96DF7
UniProt Related Accession #	Q9Y261
GenBank Nucleotide #	NM_021784
NCBI Official Full Name	hepatocyte nuclear factor 3-beta isoform 1
NCBI Official Synonym Full Names	forkhead box A2
NCBI Official Symbol	FOXA2
NCBI Official Synonym Symbols	HNF3B; TCF3B
UniProt Protein Name	Hepatocyte nuclear factor 3-beta
UniProt Synonym Protein Names	Forkhead box protein A2; Transcription factor 3B
Protein Family	Forkhead box protein
UniProt Gene Name	FOXA2
UniProt Synonym Gene Names	HNF3B; TCF3B; HNF-3-beta; HNF-3B; TCF-3B
UniProt Entry Name	FOXA2_HUMAN
NCBI Protein Information	hepatocyte nuclear factor 3-beta; HNF-3B; TCF-3B; HNF-3-beta; forkhead box protein A2; transcription factor 3B; hepatic nuclear factor-3-beta; hepatocyte nuclear factor 3, beta
NCBI Summary for FOXA2	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, Oct 2008]
Research Articles on FOXA2	**1.** FOXA1/2 is required for p53-independent p21 expression

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