10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FOXA2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant FOXA2.
Catalog # AT2085a

Product Information

Application	WB, IF, IP, E
Primary Accession	Q9Y261
Other Accession	NM_021784
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	7E7
Calculated MW	48306

Additional Information

Gene ID	3170
Other Names	Hepatocyte nuclear factor 3-beta, HNF-3-beta, HNF-3B, Forkhead box protein A2, Transcription factor 3B, TCF-3B, FOXA2, HNF3B, TCF3B
Target/Specificity	FOXA2 (NP_068556, 363 a.a. ~ 457 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FOXA2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

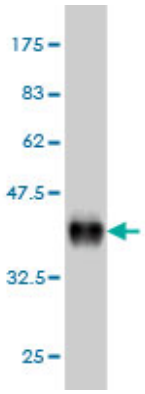
This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism 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.

References

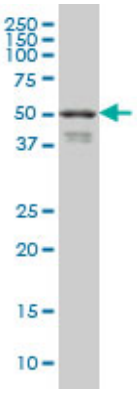
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Foxa2 (HNF-3beta) regulates expression of hepatotrophic factor ALR in liver cells. Dayoub R, et al. Biochem Biophys Res Commun, 2010 May 14. PMID 20382118.Hepatitis C virus differentially modulates activation of forkhead transcription factors and insulin-induced metabolic gene expression. Banerjee A, et al. J Virol, 2010 Jun. PMID 20357092.Loss of FOXA1/2 is essential for the epithelial-to-mesenchymal transition in pancreatic cancer. Song Y, et al. Cancer Res, 2010 Mar 1. PMID 20160041.A weighted false discovery rate control procedure reveals alleles at FOXA2 that influence fasting glucose levels. Xing C, et al. Am J Hum Genet, 2010 Mar 12. PMID 20152958.

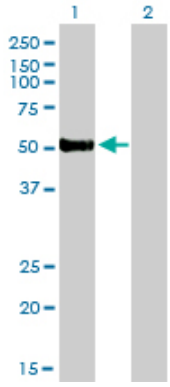
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.19 KDa) .



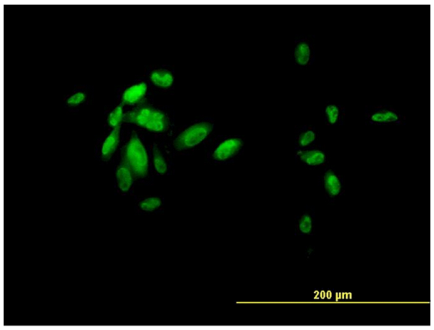
FOXA2 monoclonal antibody (M01), clone 7E6 Western Blot analysis of FOXA2 expression in HepG2 ((Cat # AT2085a)

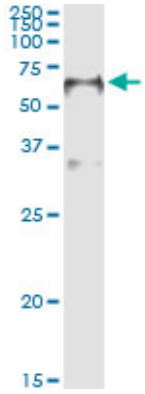


Western Blot analysis of FOXA2 expression in transfected 293T cell line by FOXA2 monoclonal antibody (M01), clone 7E6.

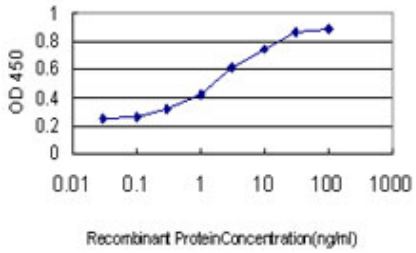
Lane 1: FOXA2 transfected lysate(48.3 KDa).
Lane 2: Non-transfected lysate.

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

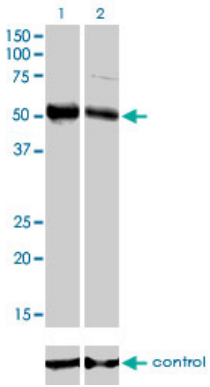




Immunoprecipitation of FOXA2 transfected lysate using anti-FOXA2 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with FOXA2 MaxPab rabbit polyclonal antibody.



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



Western blot analysis of FOXA2 over-expressed 293 cell line, cotransfected with FOXA2 Validated Chimera RNAi ((Cat # AT2085a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.