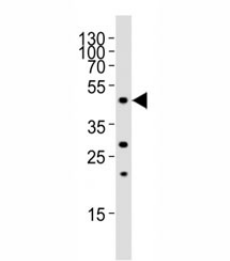
FOXA2 Antibody (F53016)

Catalog No.	Formulation	Size
F53016-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53016-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9Y261
Applications	Western blot: 1:1000
Limitations	This FOXA2 antibody is available for research use only.



Western blot analysis of lysate from rat liver tissue, using FOXA2 antibody at 1:1000.
Predicted molecular weight: 50 kDa.

Description

Transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with the consensus sequence 5'-[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3' (By similarity). In embryonic development is required for notochord formation. Involved in the development of multiple endoderm-derived organ systems such as the liver, pancreas and lungs; FOXA1 and FOXA2 seem to have at least in part redundant roles. Originally described as a transcription activator for a number of

liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes. Involved in glucose homeostasis; regulates the expression of genes important for glucose sensing in pancreatic beta-cells and glucose homeostasis. Involved in regulation of fat metabolism. Binds to fibrinogen beta promoter and is involved in IL6-induced fibrinogen beta transcriptional activation. [UniProt]

Application Notes

Titration of the FOXA2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This FOXA2 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 311-346 amino acids from the C-terminal region of human FOXA2.

Storage

Aliquot the FOXA2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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