

FOXA2 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS13073

Specification

FOXA2 Antibody (C-Terminus) - Product Information

Application	IHC
Primary Accession	O9Y261
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Chicken, Horse, Xenopus, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	48kDa KDa

FOXA2 Antibody (C-Terminus) - 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

Human FOXA2. This antibody is expected to recognise both reported isoforms.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

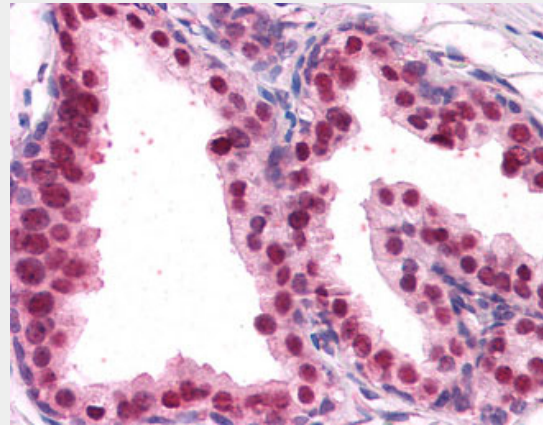
Precautions

FOXA2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

FOXA2 Antibody (C-Terminus) - Protein Information

Name FOXA2

Synonyms HNF3B, TCF3B



Anti-FOXA2 antibody IHC of human prostate.

FOXA2 Antibody (C-Terminus) - Background

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

Function

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.

Cellular Location

Nucleus

{ECO:0000255|PROSITE-ProRule:PRU00089, ECO:0000269|PubMed:14500912}.

Cytoplasm Note=Shuttles between the nucleus and cytoplasm in a CRM1-dependent manner; in response to insulin signaling via AKT1 is exported from the nucleus

promoter and is involved in IL6-induced fibrinogen beta transcriptional activation.

FOXA2 Antibody (C-Terminus) - References

Yamada S.,et al.Diabetologia 43:121-124(2000).
Hinokio Y.,et al.Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
Navas M.A.,et al.Hum. Hered. 50:370-381(2000).
Deloukas P.,et al.Nature 414:865-871(2001).
Wolfrum C.,et al.Proc. Natl. Acad. Sci. U.S.A. 100:11624-11629(2003).

FOXA2 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)