

Datasheet for ABIN679898  
**anti-FOXA2 antibody (AA 201-300)**[Go to Product page](#)

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## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | FOXA2   |
| Binding Specificity: | AA 201-300  |
| Reactivity:          | Human, Mouse  |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This FOXA2 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

|                       |  |
|-----------------------|--|
| Immunogen:            | KLH conjugated synthetic peptide derived from human HNF 3 beta |
| Isotype:              | IgG  |
| Cross-Reactivity:     | Human, Mouse   |
| Predicted Reactivity: | Rat,Cow,Pig,Horse,Chicken                                      |
| Purification:         | Purified by Protein A.   |

## Target Details

|         |       |
|---------|-------|
| Target: | FOXA2 |
|---------|-------|

## Target Details

|                   |  |
|-------------------|--|
| Alternative Name: | FOXA2/HNF 3beta ( <a href="#">FOXA2 Products</a> )   |
| Background:       | <p>Synonyms: HNF3B, TCF3B, Hepatocyte nuclear factor 3-beta, HNF-3-beta, HNF-3B, Forkhead box protein A2, Transcription factor 3B, TCF-3B, FOXA2</p> <p>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 promoter and is involved in IL6-induced fibrinogen beta transcriptional activation.</p> |
| Gene ID:          | 3170   |
| UniProt:          | <a href="#">Q9Y261</a>   |
| Pathways:         | <a href="#">Dopaminergic Neurogenesis</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a>   |

## Application Details

|                    |   |
|--------------------|---|
| Application Notes: | WB 1:300-5000<br>ELISA 1:500-1000<br>FCM 1:20-100<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only   |

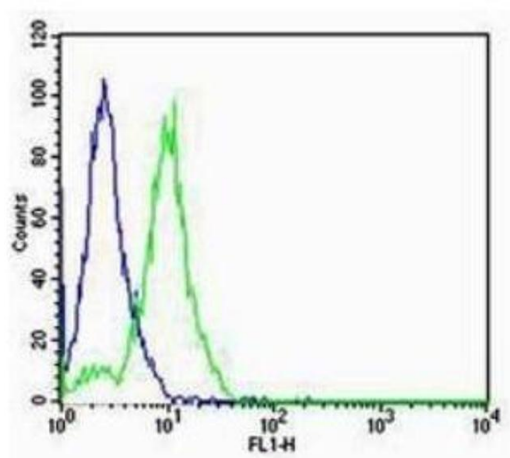
## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 µg/µL  |
| Buffer:            | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.  |
| Preservative:      | ProClin  |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | 4 °C,-20 °C  |
| Storage Comment:   | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                    |
| Expiry Date:       | 12 months  |

## Publications

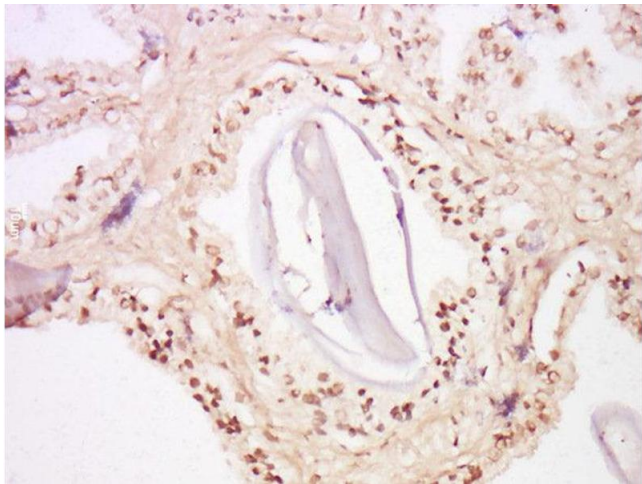
- Product cited in:
- Yamamizu, Schlessinger, Ko: "SOX9 accelerates ESC differentiation to three germ layer lineages by repressing SOX2 expression through P21 (WAF1/CIP1)." in: **Development (Cambridge, England)**, Vol. 141, Issue 22, pp. 4254-66, (2014) ([PubMed](#)).
- Yamamizu, Fujihara, Tachibana, Katayama, Takahashi, Hara, Imai, Shinkai, Yamashita: "Protein kinase A determines timing of early differentiation through epigenetic regulation with G9a." in: **Cell stem cell**, Vol. 10, Issue 6, pp. 759-70, (2012) ([PubMed](#)).

## Images



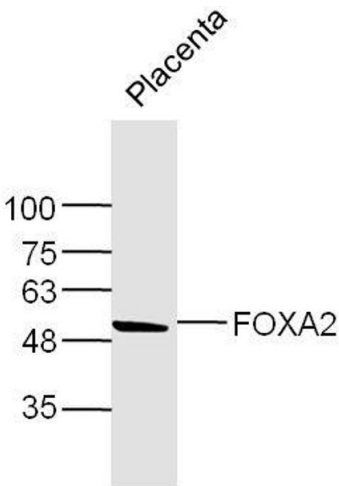
### Flow Cytometry

**Image 1.** F9 cells probed with Rabbit Anti-SP-C Polyclonal Antibody Alexa Fluor 488 Conjugated Secondary Antibody.



**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 2.** Formalin-fixed and paraffin embedded human prostate tissue labeled with Anti-FOXA2/HNF 3beta Polyclonal Antibody, Unconjugated at 1:300 followed by conjugation to the secondary antibody and DAB staining.



**Image 3.** Mouse Placenta lysates probed with FOXA2 Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.