Product Datasheet

# FOXA2 Rabbit mAb

Catalog No: #49489

Package Size: #49489-1 50ul #49489-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

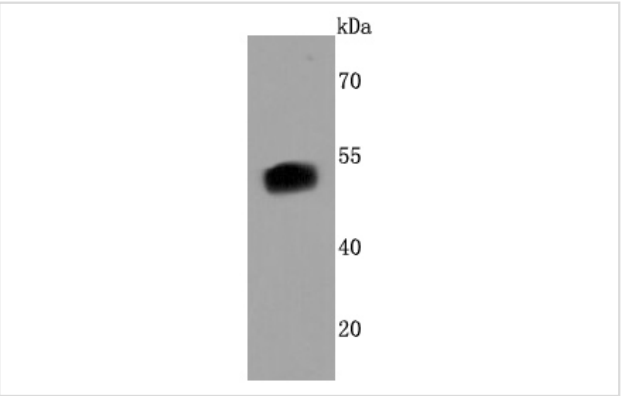
## Description

| | |
|---|---|
| Product Name | FOXA2 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | JM10-64 |
| Purification | ProA affinity purified |
| Applications | WB;ICC/IF |
| Species Reactivity | Human;Mouse;Rat |
| Immunogen Description | recombinant protein |
| Conjugates | Unconjugated |
| Other Names | Forkhead box A2 antibody Forkhead box protein A2 antibody FOX A2 antibody foxa2 antibody FOXA2_HUMAN antibody Hepatic nuclear factor 3 beta antibody Hepatocyte nuclear factor 3 antibody Hepatocyte nuclear factor 3 beta antibody Hepatocyte nuclear factor 3-beta antibody HNF 3B antibody HNF-3-beta antibody HNF-3B antibody HNF3B antibody MGC19807 antibody TCF 3B antibody TCF-3B antibody TCF3B antibody Transcription factor 3B antibody |
| Accession No. | Swiss-Prot#:Q9Y261 |
| Calculated MW | 52 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

## Application Details

WB 1:1000-1:2000ICC/IF 1:50-1:200

## Images




Western blot analysis of FOXA2 on HT-29 cells lysates using anti-FOXA2 antibody at 1/500 dilution.

## 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 discribed 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.

## References

1. Gao Y et al. Uterine epithelial cell proliferation and endometrial hyperplasia: evidence from a mouse model. Mol Hum Reprod 20:776-86 (2014). 2. Fu Y et al. Rapid generation of functional hepatocyte-like cells from human adipose-derived stem cells. Stem Cell Res Ther 7:105 (2016).