

Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free ab249749

Recombinant RabMAb

7 Images

Overview

Product name	Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free
Description	Rabbit monoclonal [EPR10881-14] to FOXA1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF Unsuitable for: IP or WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab249749 is the carrier-free version of ab173287.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR10881-14
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249749 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for IP or WB.

Target

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). Proposed to play a role in translating the epigenetic signatures into cell type-specific enhancer-driven transcriptional programs. Its differential recruitment to chromatin is dependent on distribution of histone H3 methylated at 'Lys-5' (H3K4me2) in estrogen-regulated genes. Involved in the development of multiple endoderm-derived organ systems such as liver, pancreas, lung and prostate; FOXA1 and FOXA2 seem to have at least in part redundant roles (By similarity). Modulates the transcriptional activity of nuclear hormone receptors. Is involved in ESR1-mediated transcription; required for ESR1 binding to the NKX2-1 promoter in breast cancer cells; binds to the RPRM promoter and is required for the estrogen-induced repression of RPRM. Involved in regulation of apoptosis by inhibiting the expression of BCL2. Involved in cell cycle regulation by activating expression of CDKN1B, alone or in conjunction with BRCA1. 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.

Tissue specificity Highly expressed in prostate and ESR1-positive breast tumors. Overexpressed in esophageal

and lung adenocarcinomas.

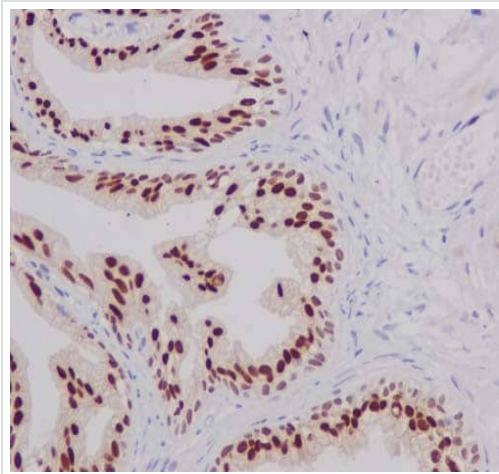
Sequence similarities

Contains 1 fork-head DNA-binding domain.

Cellular localization

Nucleus.

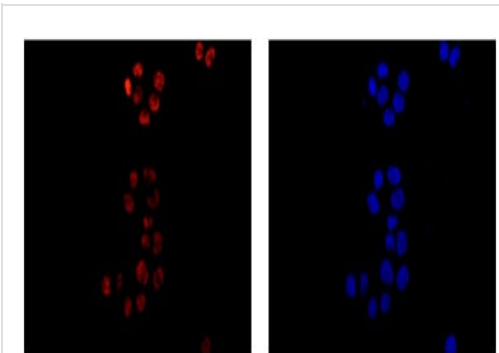
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free (ab249749)

This data was developed using [ab173287](#), the same antibody clone in a different buffer formulation.

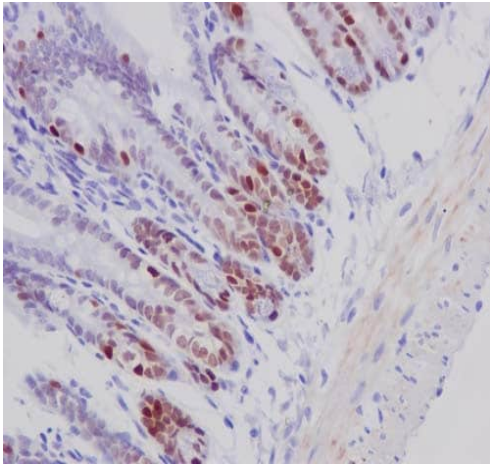
IHC-Paraffin-embedded sections of Human prostate hyperplasia. 1:1000 dilution of [ab173287](#) used. Counter stain = Hematoxylin. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free (ab249749)

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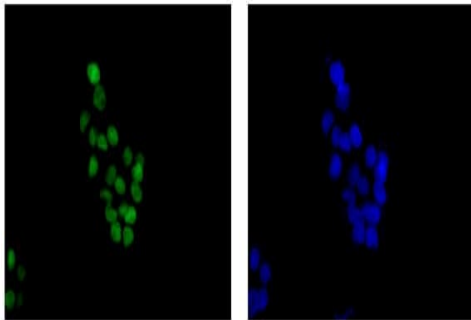
Left image: Immunofluorescent staining of SW480 cells using [ab173287](#) (1:1000 dilution). 1:200 dilution of Secondary antibody = Goat Anti-Rabbit IgG H&L (Alexa Fluor® 555) ([ab150078](#)). Right image: Immunofluorescent staining of SW480 cells with DAPI. Fixative = 4% paraformaldehyde.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free (ab249749)

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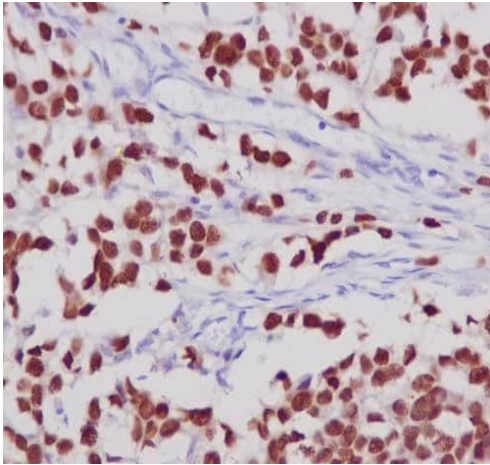
IHC-Paraffin-embedded sections of Mouse colon. 1:1000 dilution of [**ab173287**](#) used. Counter stain = Hematoxylin. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free (ab249749)

This data was developed using [**ab173287**](#), the same antibody clone in a different buffer formulation.

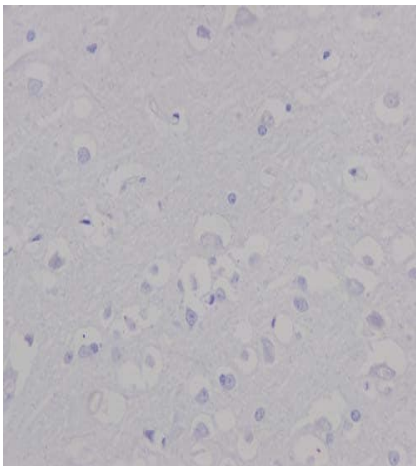
Left image: Immunofluorescent staining of HepG2 cells using [**ab173287**](#). 1:200 dilution of Secondary antibody = Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([**ab150077**](#)). Right image: Immunofluorescent staining of HepG2 cells with DAPI. Fixative = 4% paraformaldehyde.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free (ab249749)

This data was developed using [**ab173287**](#), the same antibody clone in a different buffer formulation.

IHC-Paraffin-embedded sections of Human breast carcinoma. 1:1000 dilution of [**ab173287**](#) used. Counter stain = hematoxylin. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA1 antibody [EPR10881-14] - BSA and Azide free (ab249749)

This data was developed using [**ab173287**](#), the same antibody clone in a different buffer formulation.

[**ab173287**](#) showing -ve staining in Human brain tissue. 1:1000 dilution of ab. Paraffin-embedded sections. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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