Datasheet for ABIN2174177

anti-FOXA2 antibody (AA 201-300) (PE)

2 Publications

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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 conjugated to PE
Application:	Western Blotting (WB), Flow Cytometry (FACS)

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
Alternative Name:	Foxa2/Hnf 3beta (FOXA2 Products)
Background:	Synonyms: HNF3B, TCF3B, Hepatocyte nuclear factor 3-beta, HNF-3-beta, HNF-3B, Forkhead

Target Details

	box protein A2, Transcription factor 3B, TCF-3B, FOXA2 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.
Gene ID:	3170
UniProt:	Q9Y261
Pathways:	Dopaminergic Neurogenesis, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	FCM 1:20-100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % 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:	-20 °C

Handling

Storage Comment:	Store at -20°C. Aliquot into multiple vials to 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).

