

Product datasheet for **TA342263**

Foxa2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Foxa2 antibody: synthetic peptide corresponding to a region of Mouse. Synthetic peptide located within the following region: VDVEGTDYLNGLGWSSSVSDSDERGSMQSLGSDEGYSSATVKRAKLQDG
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	48 kDa
Gene Name:	forkhead box A2
Database Link:	NP_034576 Entrez Gene 15376 Mouse P35583



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Background:

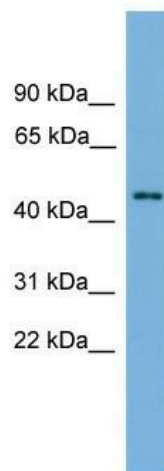
Foxa2 is a transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Foxa2 is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. In embryonic development Foxa2 is required for notochord formation. Foxa2 is 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. Foxa2 modulates the transcriptional activity of nuclear hormone receptors; inhibits AR-mediated transcription from the LCN5 promoter. Foxa2 binds to fibrinogen beta promoter and is involved in IL6-induced fibrinogen beta transcriptional activation. Foxa2 interacts with the cis-acting regulatory regions of these genes. Foxa2 is involved in glucose homeostasis; regulates the expression of genes important for glucose sensing in pancreatic beta-cells and glucose homeostasis. Foxa2 is involved in regulation of fat metabolism; activates transcriptional programs of lipid metabolism and ketogenesis at low insulin state.

Synonyms:

HNF-3-beta; HNF-3B; HNF3B; MGC19807; TCF3B

Note:

Immunogen Sequence Homology: Mouse: 100%; Rat: 86%

Product images:

WB Suggested Anti-Foxa2 Antibody Titration: 0.2-1 ug/ml; Positive Control: Mouse Thymus