

35-1777: Polyclonal Antibody to FoxA2(HNF3beta)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	FOXA2
Gene ID :	3170
Uniprot ID :	Q9Y261
Format :	Purified
Alternative Name :	HNF3B, TCF3B
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.435~439(A-S-P-L-A) derived from Human FoxA2(HNF3b).

Description

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' . 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.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 50kd, Western blotting: 1:500~1:1000

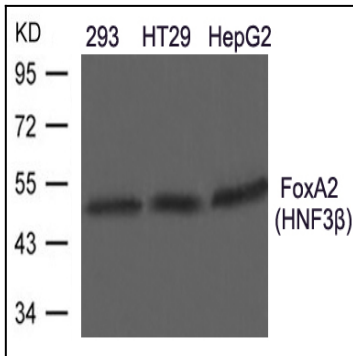


Figure 1: Western blot analysis of extracts from 293, HT29, HepG2 cells using FoxA2(HNF3b) Antibody 35-1777 .