

Recombinant Human FOXA2

Cat. No. FOXA2-127H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human FOXA2 was expressed in E. coli and refolded to soluble form.
Species	Human
Source	E.coli
Description	FOXA2 is a member of the forkhead box family of DNA-binding proteins. FOXA2 is a hepatocyte nuclear factor (specifically, HNF-3 β) that is a transcriptional activator for liver-specific genes such as albumin. During embryonic development, FOXA2 expression is a marker for cells of the definitive (but not primitive) endoderm lineage.
Form	244 g/ml (determined by Bradford assay) in 500 mM L-arginine, 300 mM guanidine-HCl, 50 mM HEPES, 5 mM cystamine, 5 mM cysteamine, 5 mM CaCl ₂ , 3 mM DTT, pH 7.5.
Molecular Mass	457 residues; 48.3 kDa
Purity	>90% by SDS-PAGE
Storage	Store at -80 °C. Avoid multiple freeze-thaws.

GENE INFORMATION

Gene Name	FOXA2 forkhead box A2 [Homo sapiens]
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Official Symbol	FOXA2
Synonyms	FOXA2; forkhead box A2; hepatocyte nuclear factor 3, beta , HNF3B; hepatocyte nuclear factor 3-beta; HNF-3B; TCF-3B; HNF-3-beta; forkhead box protein A2; transcription factor 3B; hepatic nuclear factor-3-beta; hepatocyte nuclear factor 3, beta; HNF3B; TCF3B; MGC19807;
Gene ID	3170
mRNA Refseq	NM_021784
Protein Refseq	NP_068556
MIM	600288
UniProt ID	Q9Y261
Chromosome Location	20p11
Pathway	Developmental Biology, organism-specific biosystem; FOXA transcription factor networks, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Heart Development, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem;
Function	DNA binding; DNA binding, bending; RNA polymerase II core promoter proximal region sequence-specific DNA binding; SMAD binding; double-stranded DNA binding; protein domain specific binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding

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RNA polymerase II transcription factor activity; transcription factor binding;
transcription regulatory region DNA binding;

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