

# Recombinant Human FOXA2

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length human FOXA2 was expressed in E. coli and refolded to soluble form.                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | FOXA2 is a member of the forkhead box family of DNA-binding proteins. FOXA2 is a hepatocyte nuclear factor (specifically, HNF-3 $\beta$ ) 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. |
| <b>Form</b>             | 244 $\mu$ 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 <sub>2</sub> , 3 mM DTT, pH 7.5.                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 457 residues; 48.3 kDa                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -80 °C. Avoid multiple freeze-thaws.                                                                                                                                                                                                                                                                                                        |

## GENE INFORMATION

|                  |                                        |
|------------------|----------------------------------------|
| <b>Gene Name</b> | FOXA2 forkhead box A2 [ Homo sapiens ] |
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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | FOXA2                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>            | 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;                                                                                                                                                                                          |
| <b>Gene ID</b>             | <a href="#">3170</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | <a href="#">NM_021784</a>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | <a href="#">NP_068556</a>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | <a href="#">600288</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | Q9Y261                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 20p11                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | 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;