

## Recombinant Human FOXA1

**Cat. No.** FOXA1-126H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human FOXA1 was expressed in E. coli and refolded to soluble form.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 1-472 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | FOXA1 is a member of the forkhead box family of DNA-binding proteins. FOXA1 is a hepatocyte nuclear factor (specifically, HNF-3α) that is a transcriptional activator for liver-specific genes such as AFP and albumin. During embryonic development, FoxA1 is involved in the development of multiple endoderm-derived organs such as liver, pancreas, lung and prostate. In studying in vitro stem cell differentiation, FOXA1 expression is used as a marker for endoderm lineage cells. |
| <b>Form</b>             | 200 µg/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>   | 472 AA; 49.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >80% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Store at -80 °C. Avoid multiple freeze-thaws.                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | FOXA1 forkhead box A1 [ Homo sapiens ]                                                                                                                                                                                                                           |
| <b>Official Symbol</b>     | FOXA1                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>            | FOXA1; forkhead box A1; hepatocyte nuclear factor 3, alpha , HNF3A; hepatocyte nuclear factor 3-alpha; HNF-3A; TCF-3A; HNF-3-alpha; forkhead box protein A1; transcription factor 3A; hepatocyte nuclear factor 3, alpha; HNF3A; TCF3A; MGC33105;                |
| <b>Gene ID</b>             | 3169                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_004496                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_004487                                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 602294                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>          | P55317                                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b> | 14q12-q13                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Direct p53 effectors, 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; |
| <b>Function</b>            | DNA binding; DNA binding, bending; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive                                                                                              |

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regulation of transcription; double-stranded DNA binding; protein domain specific binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding; transcription regulatory region DNA binding;

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