

# FOXH1 Antibody

Catalog # ASC11573

## Product Information

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>           | WB, IF, E                                                                                                                             |
| <b>Primary Accession</b>     | <a href="#">O75593</a>                                                                                                                |
| <b>Other Accession</b>       | <a href="#">NP_003914</a> , <a href="#">4503657</a>                                                                                   |
| <b>Reactivity</b>            | Human, Mouse, Rat                                                                                                                     |
| <b>Host</b>                  | Rabbit                                                                                                                                |
| <b>Clonality</b>             | Polyclonal                                                                                                                            |
| <b>Isotype</b>               | IgG                                                                                                                                   |
| <b>Calculated MW</b>         | 39257                                                                                                                                 |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                               |
| <b>Conjugate</b>             | Unconjugated                                                                                                                          |
| <b>Application Notes</b>     | FOXH1 antibody can be used for detection of FOXH1 by Western blot at 1 - 2 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 8928                                                                                                                                                                                                                                          |
| <b>Other Names</b>                  | Forkhead box protein H1, Forkhead activin signal transducer 1, Fast-1, hFAST-1, Forkhead activin signal transducer 2, Fast-2, FOXH1, FAST1, FAST2                                                                                             |
| <b>Target/Specificity</b>           | FOXH1; FOXH1 antibody is predicted to not cross-react with any other members of the forkhead box family.                                                                                                                                      |
| <b>Reconstitution &amp; Storage</b> | FOXH1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| <b>Precautions</b>                  | FOXH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                              |

## Protein Information

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| <b>Name</b>              | FOXH1                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>          | FAST1, FAST2                                                                                                                                                                                                                                                                                                                            |
| <b>Function</b>          | Transcriptional activator. Recognizes and binds to the DNA sequence 5'-TGT[GT][GT]ATT-3'. Required for induction of the goosecoid (GSC) promoter by TGF-beta or activin signaling. Forms a transcriptionally active complex containing FOXH1/SMAD2/SMAD4 on a site on the GSC promoter called TARE (TGF-beta/activin response element). |
| <b>Cellular Location</b> | Nucleus.                                                                                                                                                                                                                                                                                                                                |

## Background

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**FOXH1 Antibody:** FOXH1 is a member of the Forkhead-box (FOX) family of transcription factors and is the human homolog of *Xenopus* forkhead activin signal transducer-1. FOXH1 plays an important role in mediating TGF-beta/activin signals through its interaction with the SMAD2-SMAD4 complex. It is expressed primarily during early development and localizes in the cytoplasm until it forms a complex with the SMAD proteins at which time it translocates to the nucleus to positively or negatively affect gene expression.

## References

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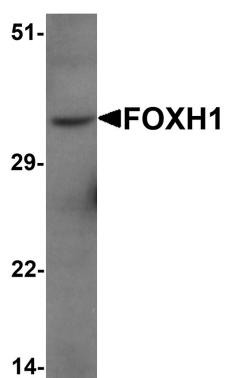
Chen X, Weisberg E, Fridmacher V, et al. Smad and FAST-1 in the assembly of activin-responsive factor. *Nature* 1997; 389:85-9.

Zhou S, Zewel L, Lengauer C, et al. Characterization of human FAST-1, a TGF beta and activin signal transducer. *Mol. Cell* 1998; 2:121-7.

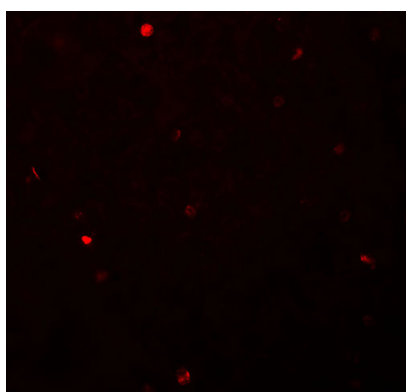
Attisano L, Silvestri C, Izzi L, et al. The transcriptional role of Smads and FAST (FoxH1) in TGFbeta and activin signaling. *Mol. Cell. Endocrinol.* 2001; 180:3-11.

## Images

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Western blot analysis of FOXH1 in human liver tissue lysate with FOXH1 antibody at 1 µg/mL.



Immunofluorescence of FOXH1 in human liver tissue with FOXH1 antibody at 20 µg/mL.

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