Data Sheet (Cat.No.TMAB-06125)

Anti-FOXH1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 39 kDa. Actual: 39 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Bone (Mouse) Lysate at 40 µg Primary: Anti-FOXH1 (TMAB-06125) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 40 kD 2. Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Rat Liver tissue lysates Primary: Anti-FOXH1 (TMAB-06125) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kDa Observed band size: 39 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human FOXH1
Antigen Species:	Human
Gene ID:	8928
Uniprot ID:	O75593

Research Background

Xenopus winged-helix factor, xFAST-1 (forkhead activin signal transducer-1) is a transcription factor that forms a complex with the receptor-regulated Smad protein, Smad2, and directly binds to activin response elements on DNA (1,2). The human homolog FAST-1 and the corresponding mouse homolog, designated FAST-2, share significant sequence homology with xFAST-1, including a conserved N-terminal forkhead domain that consists of 110 amino acid residues and is essential for binding DNA and regulating transcription in embryogenesis, in tumorigenesis and in the maintenance of differentiated cell states (3,4). FAST-1 and FAST-2 also contain a distinct C-terminal Smad interaction domain that is required for the association with various Smad proteins, including Smad2, Smad3 and

Smad4 (3,5). Expression of FAST-1 and FAST-2 is predominantly observed during early development, with lower levels detected in adult tissues (6,7). FAST-1 and FAST-2 mediated DNA binding is attenuated by both TFG?and activin, indicating that these FAST proteins mediate TFG?induced signal transduction (3).

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