

**FoxA2/HNF3 $\beta$  (D56D6) XP<sup>®</sup> Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W, IP, IF-IC  | H M R       | Endogenous   | 50        | Rabbit IgG      | #Q9Y261     | 3170            |

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:50  
1:400

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

FoxA2/HNF3 $\beta$  (D56D6) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total FoxA2/HNF3 $\beta$  protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly138 of human FoxA2/HNF3 $\beta$  protein.

**Background**

Forkhead box protein A2 (FoxA2, also known as hepatocyte nuclear factor 3 $\beta$  or HNF3 $\beta$ ) is a transcription factor that plays an important role in hepatocyte function (1). FoxA2/HNF3 $\beta$  is required for the activation of hepatic gluconeogenic gene expression during fasting (1). Together with the PGC-1 $\beta$  coactivator, FoxA2/HNF3 $\beta$  stimulates the expression of genes involved in fatty acid  $\beta$ -oxidation and, therefore, increases fatty acid metabolism (2). FoxA2/HNF3 $\beta$ , along with PGC-1 $\beta$ , also activates the expression of microsomal triacylglycerol transfer protein (MTP) and promotes VLDL secretion (2). In addition to its roles in metabolic syndromes, FoxA2/HNF3 $\beta$  is essential for development of the endoderm and midline structures in mouse embryos (3-5).

**Background References**

- Zhang, L. et al. (2005) *Cell Metab* 2, 141-8.
- Wolfrum, C. and Stoffel, M. (2006) *Cell Metab* 3, 99-110.
- Levinson-Dushnik, M. and Benvenisty, N. (1997) *Mol Cell Biol* 17, 3817-22.
- Weinstein, D.C. et al. (1994) *Cell* 78, 575-88.
- Ang, S.L. and Rossant, J. (1994) *Cell* 78, 561-74.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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