

#8186 Store at -20C

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



**Cell Signaling**  
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, 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

1. Zhang, L. et al. (2005) *Cell Metab* 2, 141-8.
2. Wolfrum, C. and Stoffel, M. (2006) *Cell Metab* 3, 99-110.
3. Levinson-Dushnik, M. and Benvenisty, N. (1997) *Mol Cell Biol* 17, 3817-22.
4. Weinstein, D.C. et al. (1994) *Cell* 78, 575-88.
5. 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<sup>®</sup> 20 at 4°C with gentle shaking, overnight.

## Applications Key

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

## Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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