

#8186 Store at -20°C

FoxA2/HNF3β (D56D6) XP® Rabbit mAb



Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 03/02/16

For Research Use Only. Not For Use In Diagnostic Procedures.

| Applications W, IP, IF-IC Endogenous | Species Cross-Reactivity* H, M, R | Molecular Wt. 50 kDa | Isotype Rabbit IgG** |
|--|--------------------------------------|-------------------------|-------------------------|
|--|--------------------------------------|-------------------------|-------------------------|

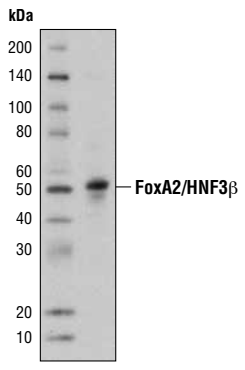
Background: Forkhead box protein A2 (FoxA2, also known as hepatocyte nuclear factor 3β or HNF3β) is a transcription factor that plays an important role in hepatocyte function (1). FoxA2/HNF3β is required for the activation of hepatic gluconeogenic gene expression during fasting (1). Together with the PGC-1β coactivator, FoxA2/HNF3β stimulates the expression of genes involved in fatty acid β-oxidation and therefore increases fatty acid metabolism (2). FoxA2/HNF3β, along with PGC-1β, also activates the expression of microsomal triacylglycerol transfer protein (MTP) and promotes VLDL secretion (2). In addition to its roles in metabolic syndromes, FoxA2/HNF3β is essential for development of the endoderm and midline structures in mouse embryos (3-5).

Specificity/Sensitivity: FoxA2/HNF3β (D56D6) XP® Rabbit mAb recognizes endogenous levels of total FoxA2/HNF3β protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly138 of human FoxA2/HNF3β protein.

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.



Western blot analysis of extracts from Hep G2 cells using FoxA2/HNF3β (D56D6) XP® Rabbit mAb.

Entrez-Gene ID #3170
UniProt ID #Q9Y261

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

*Species cross-reactivity is determined by western blot.

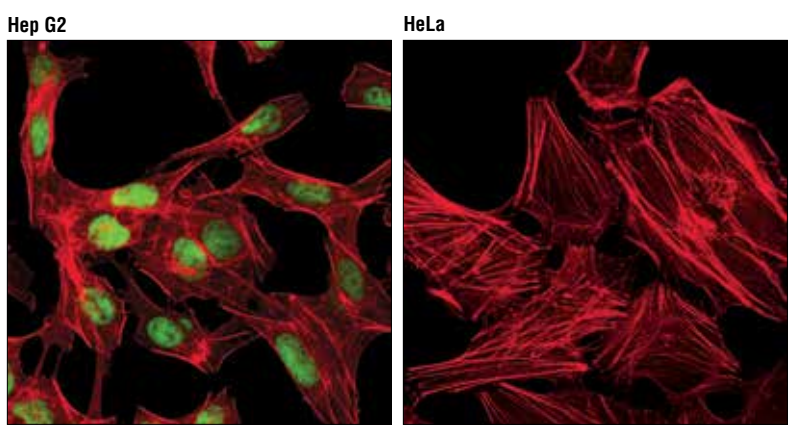
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

| | |
|----------------------------|--------|
| Western blotting | 1:1000 |
| Immunoprecipitation | 1:50 |
| Immunofluorescence (IF-IC) | 1:400 |

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.



Confocal immunofluorescent analysis of Hep G2 (left) and HeLa (right) cells using FoxA2/HNF3β (D56D6) XP® Rabbit mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red).

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.

© 2015 Cell Signaling Technology, Inc. XP and Cell Signaling Technology are trademarks of Cell Signaling Technology, Inc.

DyLight is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries. Tween is a registered trademark of ICI Americas, Inc.