

**FoxA1/HNF3 $\alpha$  (D7P9B) 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, ChIP, ChIP-seq	H M R Mk	Endogenous	50	Rabbit IgG	#P55317	3169

**Product Usage Information**

For optimal ChIP and ChIP-seq results, use 10  $\mu$ l of antibody and 10  $\mu$ g of chromatin (approximately 4 x 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP<sup>®</sup> Enzymatic Chromatin IP Kits.

**Application**

Western Blotting  
Chromatin IP  
Chromatin IP-seq

**Dilution**

1:1000  
1:50  
1:50

**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**

FoxA1/HNF3 $\alpha$  (D7P9B) Rabbit mAb recognizes endogenous levels of total FoxA1/HNF3 $\alpha$  protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu148 of human FoxA1/HNF3 $\alpha$  protein.

**Background**

Forkhead box protein A1 (FoxA1, HNF3 $\alpha$ ) is a transcription factor required for the development of endoderm-derived organs, such as liver, lung, and prostate (1). FoxA1 functions as a pioneer factor that is recruited primarily to the distant enhancers to change chromatin structure for transcription in a cell type-specific manner (2,3). The FoxA1 transcription factor is implicated in various diseases, playing a role in hormone-dependent disorders, such as breast and prostate cancers (4). The treatment of relapsing-remitting multiple sclerosis patients with IFN- $\beta$  results in FoxA1-induced stimulation of a novel population of FoxA1(+) regulatory T cells, suggesting a possible immunosuppressive role for FoxA1 (5).

**Background References**

- Friedman, J.R. and Kaestner, K.H. (2006) *Cell Mol Life Sci* 63, 2317-28.
- Lupien, M. et al. (2008) *Cell* 132, 958-70.
- Wang, A. et al. (2015) *Cell Stem Cell* 16, 386-99.
- Augello, M.A. et al. (2011) *EMBO J* 30, 3885-94.
- Liu, Y. et al. (2014) *Nat Med* 20, 272-82.

**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 **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

**Cross-Reactivity Key**

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

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