

**FoxA1/HNF3 $\alpha$  (E7E8W) Rabbit mAb**

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

<b>Applications:</b> W, IP, IF-IC, FC-FP, ChIP, ChIP-seq, C&R	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P55317	<b>Entrez-Gene Id:</b> 3169
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**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.

The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.

**Application**

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)  
Chromatin IP  
Chromatin IP-seq  
CUT&RUN

**Dilution**

1:1000  
1:50  
1:1600 - 1:3200  
1:400 - 1:1600  
1:50  
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.

For a carrier free (BSA and azide free) version of this product see product #28899.

**Specificity/Sensitivity**

FoxA1/HNF3 $\alpha$  (E7E8W) Rabbit mAb recognizes endogenous levels of total FoxA1/HNF3 $\alpha$  protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus 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**

1. Friedman, J.R. and Kaestner, K.H. (2006) *Cell Mol Life Sci* 63, 2317-28.
2. Lupien, M. et al. (2008) *Cell* 132, 958-70.
3. Wang, A. et al. (2015) *Cell Stem Cell* 16, 386-99.
4. Augello, M.A. et al. (2011) *EMBO J* 30, 3885-94.
5. 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 nonfat dry milk, 1X TBS, 0.1% Tween<sup>®</sup> 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq **C&R:** CUT&RUN

**Cross-Reactivity Key**

**H:** Human

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