Revision 8

#53528 Store at -20C

FoxA1/HNF3α (E7E8W) Rabbit mAb

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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

Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

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

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (Immunocytochemistry)	1:1600 - 1:3200
Flow Cytometry (Fixed/Permeabilized)	1:400 - 1:1600
Chromatin IP	1:50
Chromatin IP-seq	1:50
CUT&RUN	1:50

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.

Specificity / Sensitivity

FoxA1/HNF3α (E7E8W) Rabbit mAb recognizes endogenous levels of total FoxA1/HNF3α protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human FoxA1/HNF3α protein.

Background

Forkhead box protein A1 (FoxA1, HNF3α) 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-β 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® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: 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 **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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