

Store at
-20C
#46395**YY1 (D5D9Z) Rabbit mAb**
Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IF-IC, FC-FP, ChIP, ChIP-seq, C&R, C&T	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit IgG	UniProt ID: #P25490	Entrez-Gene Id: 7528
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Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ 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.

The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:200
Immunofluorescence (Immunocytochemistry)	1:800
Flow Cytometry (Fixed/Permeabilized)	1:100
Chromatin IP	1:50
Chromatin IP-seq	1:50
CUT&RUN	1:50
CUT&Tag	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

YY1 (D5D9Z) Rabbit mAb recognizes endogenous levels of total YY1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human YY1 protein. The antibody epitope has been further mapped to a peptide corresponding to residues surrounding Pro284 of human YY1 protein.

Background

YY1 (Yin Yang1) is a ubiquitously expressed transcription factor with fundamental roles in embryogenesis, differentiation, replication and proliferation. YY1 contains four zinc finger motifs of the Cys-Cys-His-His type and can activate different eukaryotic genes (such as CREB, c-myc, Histone H4, p53 and PARP-1) or repress different eukaryotic genes (such as α-actin, IFN-β and IFN-γ) as well as regulate some viral promoters (1). YY1 deficient embryos die approximately at the time of implantation, suggesting that YY1 has an essential role in embryonic development (2). YY1 is overexpressed in cancer cells such as prostate cancer and therefore may be considered a prognostic marker (1).

Background References

- Gordon, S. et al. (2006) *Oncogene* 25, 1125-42.
- Donohoe, M.E. et al. (1999) *Mol. Cell Biol.* 19, 7237-7244.

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

Cross-Reactivity Key

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

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