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#70148

TAZ (D3I6D) Rabbit mAb



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Entrez-Gene ID #25937
UniProt ID #Q9EPK5

rev. 01/04/19

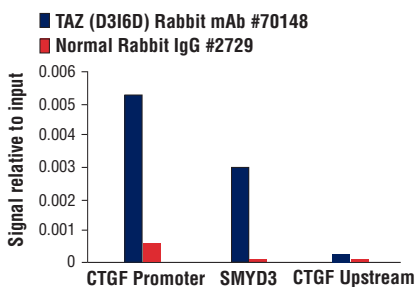
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Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, ChIP, ChIP-seq Endogenous	H, M	50 kDa	Rabbit IgG**

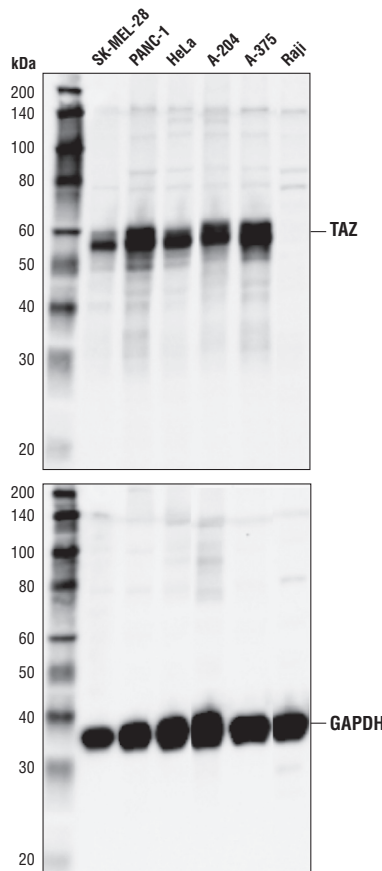
Background: TAZ is a transcriptional co-activator with a PDZ-binding motif that is regulated by its interaction with 14-3-3 proteins (1). TAZ shares homology with the WW domain of Yes-associated protein (YAP) (1). TAZ is proposed to modulate the switch between proliferation and differentiation of mesenchymal stem cells (MSC) via interaction with transcription factors Runx2 and PPAR γ . This process is critical to normal tissue development and the prevention of tumor formation. Due to its role in determination of MSC fate, TAZ may have clinical relevance to several human diseases caused by an imbalance of MSC differentiation (2,3). TAZ is negatively regulated via phosphorylation by LATS1/2, core kinases in the Hippo signaling pathway that controls stem cell development, tissue growth and tumor development (4).

Specificity/Sensitivity: TAZ (D3I6D) Rabbit mAb recognizes endogenous levels of total TAZ protein. This antibody does not cross-react with YAP protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala200 of Mouse TAZ protein.



Chromatin immunoprecipitations were performed with cross-linked chromatin from NCI-H2052 cells and either TAZ (D3I6D) Rabbit mAb or Normal Rabbit IgG #2729 using SimpleChIP[®] Plus Enzymatic Chromatin IP Kit (Magnetic Beads) #9005. The enriched DNA was quantified by real-time PCR using SimpleChIP[®] Human CTGF Promoter Primers #14927, human SMYD3 intron 2 primers, and SimpleChIP[®] Human CTGF Upstream Primers #14928. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.



Western blot analysis of extracts from various cells using TAZ (D3I6D) Rabbit mAb (upper) and GAPDH (D16H11) XP[®] #5174 (lower). As expected, Raji cells are negative for TAZ.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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	1:100
Chromatin IP / Chromatin IP-seq	1:50
Optimal ChIP / ChIP-seq conditions: 10 μ l of antibody & 10 μ g of chromatin (4×10^6 cells) per IP. Antibody validated using SimpleChIP [®] Enzymatic ChIP Kits.	

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

- (1) Kanai, F. et al. (2000) *EMBO J* 19, 6778-91.
- (2) Hong, J.H. et al. (2005) *Science* 309, 1074-8.
- (3) Hong, J.H. and Yaffe, M.B. (2006) *Cell Cycle* 5, 176-9.
- (4) Lei, Q.Y. et al. (2008) *Mol Cell Biol* 28, 2426-36.

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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.

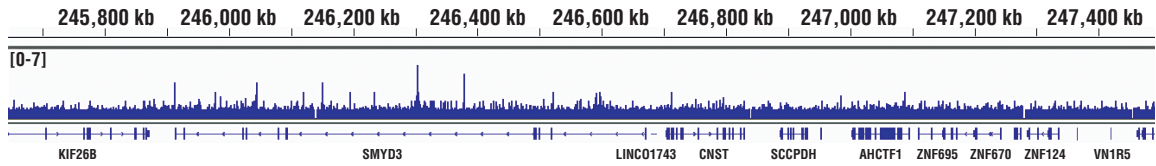
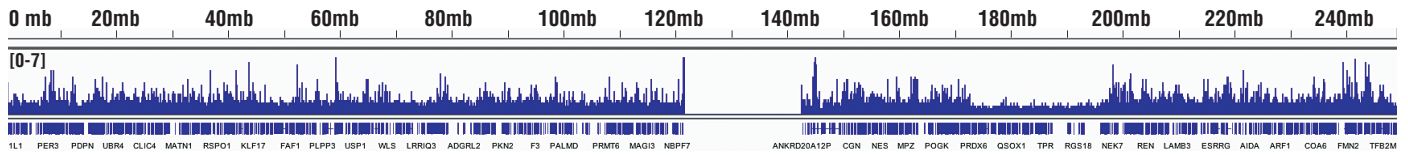
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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken 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.



Chromatin immunoprecipitations were performed with cross-linked chromatin from NCI-H2052 cells and TAZ (D3I6D) Rabbit mAb, using SimpleChIP® Plus Enzymatic Chromatin IP Kit (Magnetic Beads) #9005. DNA Libraries were prepared using SimpleChIP® ChIP-seq DNA Library Prep Kit for Illumina® #56795. The figure shows binding across chromosome 1 (upper), including SMYD3 (lower), a known target gene of TAZ (see additional figure containing ChIP-qPCR data).

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