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Datasheet for ABIN967665

anti-TAZ antibody





0.1 mg

Publications



Go to Product page

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Quantity:

Target:	TAZ		
Reactivity:	Human, Mouse		
Host:	Mouse		
Clonality:	Monoclonal		
Application:	Western Blotting (WB), BioImaging (BI)		
Product Details			
Brand:	BD Pharmingen™		
Immunogen:	Human TAZ Recombinant Protein		
Clone:	M2-616		
Isotype:	IgG2b kappa		
Cross-Reactivity:	Mouse (Murine)		
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.		
	2. Please refer to us for technical protocols.		
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide		
	compounds in running water before discarding to avoid accumulation of potentially explosive		
	deposits in plumbing.		
	4. Triton is a trademark of the Dow Chemical Company.		
	5. This antibody has been developed and certified for the bioimaging application. However, a		
	routine bioimaging test is not performed on every lot. Researchers are encouraged to titrate the		

Product Details

	reagent for optimal performance.		
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity		
	chromatography.		
Target Details			
Target:	TAZ		
Alternative Name:	TAZ (TAZ Products)		
Background:	Taz is a 49-kDa transcriptional co-activator with a PDZ-binding motif and is regulated by		
	binding with 14-3-3 proteins. It plays a key role in differentiation of mesenchymal stem cells into		
	either osteoblasts or adipocytes via interactions with key transcription factors Runx2 and		
	PPARgamma. More recently, Taz was found to be a component of an E3 ubiquitin ligase		
	involved in ubiquitin-dependent substrate proteolysis by mediating its interaction with the F-box		
	protein beta-Trcp. Therefore, Taz has dual functions of regulating protein degradation and		
	transcription.		
	Synonyms: WWTR1		
Molecular Weight:	49 kDa		
Application Details			
Application Notes:	December and all December of four Distinct with me		
	Recommended Protocol for Bioimaging:		
	1. Seed the cells in appropriate culture medium at an appropriate cell density in an 96-well		
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appropriate buffer (either 1x PBS or 1x Perm/Wash buffer, see step 5.c.).

- 7. Optional blocking step: Remove the wash buffers, and block the cells by adding 100 μ l of blocking buffer or 3% FBS in appropriate dilution buffer to each well and incubating for 15 to 30 minutes at RT.
- 8. Dilute the antibody to its optimal working concentration in appropriate dilution buffer. Titrate purified (unconjugated) antibodies and second-step reagents to determine the optimal concentration. If using a Bioimaging Certified antibody conjugate, dilute it 1:10.
- 9. Add 50 µl of diluted antibody per well and incubate for 60 minutes at RT. Incubate in the dark if using fluorescently labeled antibodies.
- 10. Remove the antibody, and wash the wells three times with 100 μ l of wash buffer. An optional detergent wash (100 μ l of 0.05% Tween in 1× PBS) can be included prior to the regular wash steps.
- 11. If the antibody being used is fluorescently labeled, then move to step 12. Otherwise, if using a purified unlabeled antibody, repeat steps 8 to 10 with a fluorescently labeled second-step reagent to detect the purified antibody.
- 12. After the final wash, counter-stain the nuclei by adding 100 μ l of a 2 μ g/ml solution of Hoechst 33342 in 1× PBS to each well at least 15 minutes before imaging.
- 13. View and analyze the cells on an appropriate imaging instrument.

Comment:

Related Products: ABIN967389, ABIN968535

Restrictions:

For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

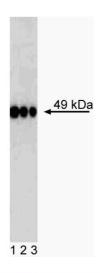
Product cited in:

Hong, Yaffe: "TAZ: a beta-catenin-like molecule that regulates mesenchymal stem cell differentiation." in: **Cell cycle (Georgetown, Tex.)**, Vol. 5, Issue 2, pp. 176-9, (2006) (PubMed).

Hong, Hwang, McManus, Amsterdam, Tian, Kalmukova, Mueller, Benjamin, Spiegelman, Sharp, Hopkins, Yaffe: "TAZ, a transcriptional modulator of mesenchymal stem cell differentiation." in: **Science (New York, N.Y.)**, Vol. 309, Issue 5737, pp. 1074-8, (2005) (PubMed).

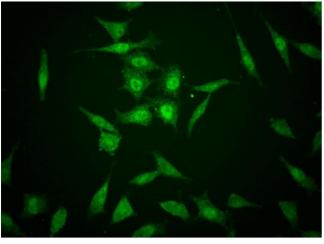
Kanai, Marignani, Sarbassova, Yagi, Hall, Donowitz, Hisaminato, Fujiwara, Ito, Cantley, Yaffe: "TAZ: a novel transcriptional co-activator regulated by interactions with 14-3-3 and PDZ domain proteins." in: **The EMBO journal**, Vol. 19, Issue 24, pp. 6778-91, (2001) (PubMed).

Images



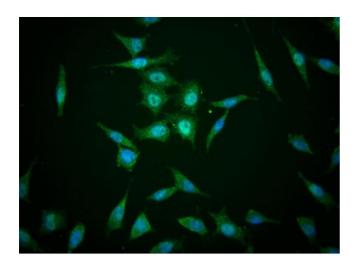
Western Blotting

Image 1. Western blot analysis of TAZ in transformed human epithelioid carcinoma. HeLa cell lysate (ABIN968535) was probed with Purified Mouse anti-TAZ monoclonal antibody at concentrations of 0.5, 0.25, and 0.125 μg/ml (lanes 1, 2, and 3, respectively). TAZ is identified as a band of 49 kDa.



Immunofluorescence

Image 2. Immunofluorescent staining of human cell lines. HeLa cells (ATCC CCL-2) were seeded in two 96-well imaging plates at ~10,000 cells per well. After overnight incubation, the cells were fixed, permeabilized with Saponin, and stained with Purified Mouse anti-TAZ (pseudocolored green) according to the Recommended Assay Procedure. The second-step reagent was Alexa Fluor® 555 goat antimouse Ig (Invitrogen). The left image shows TAZ alone, and the right image shows TAZ merged with Hoechst staining. Images were captured on a BD Pathway™ 435 bioimager using a 20x objective and merged using BD AttoVision™



software. Other permeabilization methods, cold methanol and $\mathsf{Triton}^\mathsf{m} \mathsf{X}\text{-}100$, did not work well.

Immunofluorescence

Image 3. Immunofluorescent staining of human cell lines