

TR4/NR2C2 Antibody



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 67	Source/Isotype: Rabbit	UniProt ID: #P49116	Entrez-Gene Id: 7182
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TR4/NR2C2 Antibody recognizes endogenous levels of total TR4/NR2C2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile10 of human TR4/NR2C2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Testicular receptor 4 (TR4), also called TAK1 or NR2C2, is an orphan receptor in a distinct subclass of the steroid hormone nuclear receptor superfamily along with TR2 (1,2). TR4 forms heterodimers with TR2 and binds to DNA elements containing direct repeats (DRs) (3). TR4 plays a role in various processes, including neurogenesis, spermatogenesis, RNA metabolism, and protein translation (4-6). TR4 can interact with other hormone receptors such as AR and ER to influence protein-protein binding and target gene inactivation (7,8). High expression of TR4 correlates with prostate cancer metastasis and invasion through downstream targets such as CCL2 and Ezh2 (9-10). Expression of TR4 in other cancers such as NSCLC and testicular germ cell tumors has also been associated with poor prognosis (11-12).				
Background References		1. Chang, C. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 6040-4. 2. Law, S.W. et al. (1994) <i>Gene Expr</i> 4, 77-84. 3. Lee, C.H. et al. (1998) <i>J Biol Chem</i> 273, 25209-15. 4. Young, W.J. et al. (1998) <i>J Biol Chem</i> 273, 20877-85. 5. Mu, X. et al. (2004) <i>Mol Cell Biol</i> 24, 5887-99. 6. O'Geen, H. et al. (2010) <i>BMC Genomics</i> 11, 689. 7. Shyr, C.R. et al. (2002) <i>J Biol Chem</i> 277, 14622-8. 8. Lee, Y.F. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 14724-9. 9. Ding, X. et al. (2015) <i>Int J Cancer</i> 136, 955-64. 10. Zhu, J. et al. (2015) <i>Mol Cancer Ther</i> 14, 1445-53. 11. Zhang, L. et al. (2018) <i>Cancer Soi</i> 109, 384-394.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

Applications Key

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.

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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