

DR1 Antibody



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 19	Source/Isotype: Rabbit	UniProt ID: #Q01658	Entrez-Gene Id 1810
Product Usage Information		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		DR1 Antibody recognizes endogenous levels of total DR1 protein.				
Species predicted to react based on 100% sequence homology		D. melanogaster, Zebr	afish, Dog, Pig			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly112 of human DR1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Down-regulator of transcription 1 (DR1), also known as negative cofactor $2-\beta$ (NC2- β), forms a heterodimer with DR1 associated protein 1 (DRAP1)/NC2- α and acts as a negative regulator of RNA polymerase II and III (RNAPII and III) transcription (1-5). DR1 activity is thought to be important for modulating the switch between basal transcription activity and transcription activator driven transcription (2,6,7). DR1 interaction with TATA binding protein (TBP) blocks the association of general transcription factors TFIIA and TFIIB with TBP and disrupts the formation of the RNAPII transcription initiation complex (1,8,9). RNAPIII driven transcription is also inhibited by DR1 interaction with TBP. DR1 disrupts the interaction of TBP with the TFIIB related factor (BRF)/RNAPIII B-related factor, inhibiting transcription initiation by the RNAPIII machinery (4).				
Background References		1. Inostroza, J.A. et al. (1992) <i>Cell</i> 70, 477-89. 2. Meisterernst, M. and Roeder, R.G. (1991) <i>Cell</i> 67, 557-67. 3. Mermelstein, F. et al. (1996) <i>Genes Dev</i> 10, 1033-48. 4. White, R.J. et al. (1994) <i>Science</i> 266, 448-50. 5. Kantidakis, T. and White, R.J. (2010) <i>Nucleic Acids Res</i> 38, 1228-39. 6. Kraus, V.B. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 6279-82. 7. Yeung, K.C. et al. (1994) <i>Genes Dev</i> 8, 2097-109. 8. Kim, T.K. et al. (1995) <i>J Biol Chem</i> 270, 10976-81. 9. Kamada, K. et al. (2001) <i>Cell</i> 106, 71-81.				
Species Reactivity		8. Kim, T.K. et al. (1995 9. Kamada, K. et al. (20	i) J Biol Chem 270, 7 001) Cell 106, 71-81	10976-81.	and application (a.g.	woctorn blot)

Species Reactivity

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

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

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