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TLE1/2/3/4 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M Mk Dm	Sensitivity: Endogenous	MW (kDa): 78-90	Source/Isotype: Rabbit	UniProt ID: #Q04726, #Q04727, #Q04725, #Q04724	Entrez-Gene Id: 7090, 7091, 7089, 7088
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	TLE1/2/3/4 Antibody detects endogenous levels of TLE1, TLE2, TLE3, and TLE4 proteins. Based on homology it should also recognize TLE1 and TLE2 of Zebra fish, TLE2 of Xenopus, and Groucho of Drosophila.	
Species predicted to react based on 100% sequence homology	Rat, Xenopus, Zebrafish	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp760 of human TLE1. Antibodies are purified by peptide affinity chromatography.	
Background	Transducin-like enhancer of split proteins (TLE1, TLE2, TLE3, TLE4, and TLE6) are mammalian homologs of Drosophila Groucho (1). TLEs contain several WD-repeats implicated in protein-protein interaction (2,3). TLEs are transcriptional co-repressors that bind to many transcription factors, such as LEF1, Runx1, Oct-1, hepatocyte nuclear factor 3-β as well as histone H3 (4-7). TLEs are differentially expressed during animal development and may have overlapping as well as distinct functions (8).	
Background References	<ol style="list-style-type: none"> 1. Stifani, S. et al. (1992) <i>Nat. Genet.</i> 2, 119-127. 2. Chen, G. and Courey, A.J. (2000) <i>Gene</i> 249, 1-16. 3. Jennings, B.H. et al. (2006) <i>Mol. Cell</i> 22, 645-655. 4. Levanon, D. et al. (1998) <i>Proc. Natl. Acad. Sci. U S A</i> 95, 11590-11595. 5. Malin, S. et al. (2005) <i>Nucleic Acids Res.</i> 33, 4618-4625. 6. Wang, J.C. et al. (2000) <i>J. Biol. Chem.</i> 275, 18418-18423. 7. Palaparti, A. et al. (1997) <i>J. Biol. Chem.</i> 272, 26604-26610. 8. Gasperowicz, M. and Otto, F. (2005) <i>J. Cell Biochem.</i> 95, 670-687. 	

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
Cross-Reactivity Key	H: Human M: Mouse Mk: Monkey Dm: D. melanogaster
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