TRXR1 Antibody				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
С	Support:	877-678-TECH (8324)		
#6925	Web:	info@cellsignal.com cellsignal.com		
#	3 Trask Lane Danvers	Massachusetts 01923 USA		

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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 55	Source: Rabbit	UniProt ID: #Q16881	Entrez-Gene l 7296	
Product Usage Information		oplication estern Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensit	ivity TR	TRXR1 Antibody recognizes endogenous levels of total TRXR1 protein.					
Source / Purificatio	res	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile259 of human TRXR1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	hor in r trai def and the	TRXR1 (thioredoxin reductase 1) is a selenocysteine-containing protein that is involved in redox homeostasis (1-6). Its canonical target is thioredoxin, another redox protein (1). Together, they are involved in many functions such as antioxidant regulation (3-6), cell proliferation (2,3,5), DNA replication (2,3), and transcription (3,5). TRXR1 is also capable of reducing a wide array of cellular proteins (1,3). Selenium deficiency, either by diet modification (2,6) or introduction of methylmercury (4), hinders proper expression and function of TRXR1. It is possible that this effect, which results in a higher oxidative state, is a result of the selenocysteine codon (UGA) being read as a STOP codon in the absence of adequate selenium (4). The functions of TRXR1 in cell proliferation and antioxidant defense make it a potential therapeutic target.					
Background Refere	2. (3. (4. (5. F	 Turanov, A.A. et al. (2010) Biochem J 430, 285-93. Gasdaska, P.Y. et al. (1995) FEBS Lett 373, 5-9. Gromer, S. et al. (2004) Med Res Rev 24, 40-89. Usuki, F. et al. (2011) J Biol Chem 286, 6641-9. Pappas, A.C. et al. (2008) Comp Biochem Physiol B Biochem Mol Biol 151, 361-72. Müller, M. et al. (2010) Genes Nutr 5, 297-307. 					
Species Reactivity	Spe	cies reactivity is det	ermined by testing	in at least one appro	oved application (e.g., w	estern blot).	
Western Blot Buffe			ern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, C with gentle shaking, overnight.				
Applications Key	WE	WB: Western Blotting					
Cross-Reactivity K	X : ×	(enopus Z: zebrafish	R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster fish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse : rabbit All: all species expected				
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