e at -20C	SOD1 Antibody			
Store at -		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

	ctivity: Sensitivit H Endogeno		Source: Rabbit	UniProt ID: #P00441	Entrez-Gene Id: 6647		
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	SOD1 Antibody de	SOD1 Antibody detects endogenous levels of total SOD1 protein.					
Source / Purification	residues near the	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino- terminus of human SOD1. Antibodies were purified by protein A and peptide affinity chromatography.					
Background	superoxide anion localized in the cy chromosome 21 in mutations have be degenerative dise species, its mutati mutant SOD1 indu become misfolded	to hydrogen peroxide ar tosol, nucleus, and mito n a region affected in Do een identified in the fami ase of motor neurons (3 ons in ALS have been o uces the neurodegenera	nd molecular oxygen chondrial intermembrown Syndrome (2). In ilial form of amyotrop 3-5). Despite the fact lescribed as gain-of-f tition observed in ALS	zyme that catalyzes the (1). SOD1 is ubiquitousl rane space. The SOD1 a addition, over 100 distin hic lateral sclerosis (ALS that SOD1 helps to elim unction (5). The mechar is still unclear. Mutant S ecular weight species th	y expressed and is gene locus is on nct SOD1 inherited S), a progressive inate toxic reactive hism by which SOD1 proteins		
Background Reference	2. Sherman, L. et 3. Rosen, D.R. et 4. Deng, H.X. et a	 McCord, J.M. and Fridovich, I. (1988) Free Radic Biol Med 5, 363-9. Sherman, L. et al. (1983) Proc Natl Acad Sci USA 80, 5465-9. Rosen, D.R. et al. (1993) Nature 362, 59-62. Deng, H.X. et al. (1993) Science 261, 1047-51. Valentine, J.S. and Hart, P.J. (2003) Proc Natl Acad Sci USA 100, 3617-22. 					
Species Reactivity	Species reactivity i	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	WB: Western Blot	ting					
Cross-Reactivity Key	X: Xenopus Z: zeb		g Pg: pig Śc: S. cere	Mi: mink C: chicken Dr visiae Ce: C. elegans H	0		
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SOD1 Antibody (#2770) Datasheet Without Images Cell Signaling Technology

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