Thioredoxin 1 (C63C6) Rabbit mAb





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Applications: W, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 12	Source/Isotype: Rabbit IgG	UniProt ID: #P10599	Entrez-Gene Id: 7295		
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:400			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #78132.						
Specificity/Sen	sitivity	Thioredoxin 1 (C63C6) Rabbit mAb detects endogenous levels of total thioredoxin 1 protein.						
Source / Purification		Thioredoxin 1 (C63C6) Rabbit mAb is produced by immunizing rabbits with a synthetic peptide corresponding to residues surrounding Ala9 of human thioredoxin 1.						
BackgroundThioredoxin is a small redox protein found in many eukaryotes and prokaryotes. A pair of within a highly conserved, active site sequence can be oxidized to form a disulfide bond th reduced by thioredoxin reductase (1). Multiple forms of thioredoxin have been identified, i cytosolic thioredoxin 1 (TRX1) and mitochondrial thioredoxin 2 (TRX2). Thioredoxin particip cellular processes including redox signaling, response to oxidative stress, and protein redu potential role of thioredoxin in human disorders such as cancer, aging, and heart disease i under investigation (2). Thioredoxin can play a key role in cancer progression, because it a negative regulator of the proapoptotic kinase ASK1 (3). Changes in thioredoxin expression associated with meningococcal septic shock and acute lung injury (4,5).					ond that is then ified, including articipates in many n reduction (1). A ease is currently se it acts as a			
2. Burke-Gaffney, A. e 3. Saitoh, M. et al. (19 4. Callister, M.E. et al.			. (2004) <i>Toxicol Sci</i> 78, 3-14. et al. (2005) <i>Trends Pharmacol Sci</i> 26, 398-404. 998) <i>EMBO J</i> 17, 2596-606. . (2007) <i>Intensive Care Med</i> 33, 364-7. . (2006) <i>Thorax</i> 61, 521-7.					
Species Reactiv	es Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot BufferIMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				ר 5% w/v BSA, 1X				
Applications K	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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