Revision 1		
te မရို TXNIP (D5F3E) Rabbit mAb	Ce T E	CHNOLOGY®
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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H3M7	Entrez-Gene Id: 10628		
Product Usage		Application			Dilution			
		Immunoprecipitation			1:50			
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.						
Specificity/Ser	TXNIP (D5F3E) Rabbit m	hAb recognizes en	dogenous levels of total	TXNIP protein.				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val337 of human TXNIP protein.						
Background		The ubiquitously expressed thioredoxin-interacting protein (TXNIP) binds and inhibits thioredoxin to regulate cellular redox state (1-3). Research studies demonstrate that hyperglycemia induces TXNIP expression and increases cellular oxidative stress (1). In addition, these studies show that TXNIP reduces glucose uptake directly by binding the glucose transporter Glut1 to stimulate receptor internalization or indirectly by reducing Glut1 mRNA levels (3). Additional studies indicate that TXNIP plays a role in the regulation of insulin mRNA transcription (4). Microarray analyses indicate that TXNIP acts downstream of PPARy and is a putative tumor suppressor that may control thyroid cancer cell progression (5). In addition, the TXNIP protein may be a potential therapeutic target for the treatment of type 2 diabetes and some disorders related to ER-stress (6).						
Background R	eferences	 Schulze, P.C. et al. (2004) <i>J Biol Chem</i> 279, 30369-74. Saxena, G. et al. (2010) <i>J Biol Chem</i> 285, 3997-4005. Wu, N. et al. (2013) <i>Mol Cell</i> 49, 1167-75. Xu, G. et al. (2013) <i>Nat Med</i> 19, 1141-6. Morrison, J.A. et al. (2014) <i>Mol Cancer</i> 13, 62. Robinson, K.A. et al. (2013) <i>J Mol Endocrinol</i> 50, 59-71. 						
Species Reacti	vity	Species reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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