

TXNIP (D5F3E) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H3M7	Entrez-Gene Id: 10628
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		TXNIP (D5F3E) Rabbit mAb (Biotinylated) recognizes endogenous levels of total TXNIP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val337 of human TXNIP protein.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated TXNIP (D5F3E) Rabbit mAb #14715.				
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 Re	ferences	 Schulze, P.C. et al. (2004) J Biol Chem 279, 30369-74. Saxena, G. et al. (2010) J Biol Chem 285, 3997-4005. Wu, N. et al. (2013) Mol Cell 49, 1167-75. Xu, G. et al. (2013) Nat Med 19, 1141-6. Morrison, J.A. et al. (2014) Mol Cancer 13, 62. Robinson, K.A. et al. (2013) J Mol Endocrinol 50, 59-71. 				

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 R: Rat Mk: Monkey

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