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TCF11/NRF1 (D5B10) Rabbit mAb



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Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 120-140	Source/Isotype: Rabbit IgG	UniProt ID: #Q14494	Entrez-Gene Id: 4779	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		TCF11/NRF1 (D5B10) Rabbit mAb recognizes endogenous levels of total TCF11 protein.					
Source / Purification	•	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly129 of human TCF11 protein.					
Background	Nuc hum asso resp has prot The prot con:	Transcription factor 11 (TCF11) is a basic leucine zipper transcription factor. It is also referred to as Nuclear factor E2-related factor 1 (NRF1). TCF11 was initially reported to activate erythroid-specific, human globin gene expression (1). It plays an essential role during embryonic development (2). It also associates with other transcription factors, such as Jun proteins, to transcriptionally control antioxidant response element (ARE)-mediated expression in response to antioxidants and xenobiotics (3-5). TCF11 has been shown to regulate proteasomal degradation and mediate the proteasome recovery pathway after proteasome inhibition (6,7). TCF11 is ubiquitously expressed (8) and several isoforms have been reported. The 120 kDa form exists in the endoplasmic reticulum (ER) membrane under normal conditions. Upon proteasome inhibition, TCF11 translocates to the nucleus (7). The 65 kDa N-terminal-truncated form is constitutively localized to the nucleus (9,10). TCF11 protein levels are regulated by ubiquitination and proteasomal-mediated degradation (11); proteasome inhibitors stabilize TCF11.					
Background Referer	 L. Caterina, J.J. et al. (1994) Nucleic Acids Res 22, 2383-91. Murphy, P. and Kolstø, A. (2000) Mech Dev 97, 141-8. Johnsen, O. et al. (1998) Nucleic Acids Res 26, 512-20. Venugopal, R. and Jaiswal, A.K. (1998) Oncogene 17, 3145-56. Kwong, M. et al. (1999) J Biol Chem 274, 37491-8. Radhakrishnan, S.K. et al. (2010) Mol Cell 38, 17-28. Steffen, J. et al. (2010) Mol Cell 40, 147-58. Chan, J.Y. et al. (1993) Proc Natl Acad Sci USA 90, 11371-5. Wang, W. and Chan, J.Y. (2006) J Biol Chem 281, 19676-87. Wang, W. et al. (2007) J Biol Chem 282, 24670-8. Chepelev, N.L. et al. (2011) PLoS One 6, e29167. 						

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

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

TCF11/NRF1 (D5B10) Rabbit mAb (#8052) Datasheet Without Images Cell Signaling Technology

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