KEAP1 (D6B12) Rabbit mAb





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Applications: W, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60-64	Source/Isotype: Rabbit IgG	UniProt ID: #Q14145	Entrez-Gene Id: 9817
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Immunofluorescence (Immunocytochemistry)1:100 - 1:400		000		
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/Sensi	tivity	KEAP1 (D6B12) Rabbit mAb recognizes endogenous levels of total KEAP1 protein.				
Species predicte based on 100% s homology		Monkey, Bovine, Pig				
Source / Purifica	tion	Monoclonal antibody residues surrounding		unizing animals with a s EAP1 protein.	synthetic peptide co	prresponding to
Background		target gene promoter conditions, the NRF2 i it can be targeted for maintain cellular hom Following oxidative or translocate to the nuc other transcription fac associated with chron directly correlates with anti-cancer drug-indu KEAP1 contains an am KELCH domain is requ Cul3 E3 ubiquitin ligas sequestration and ubi KEAP1 leads to disasso NF-κB activity by targe	regions to regulate nhibitor INrf2 (also ubiquitin-mediated eostasis through re- electrophilic stress leus and bind to AR ctors mediates the r ic obstructive pulme n cell proliferation r ced apoptosis (5). nino terminal BTB/P irred for interaction se (8-10). Under nor quitin-mediated pro ociation of the NRF2 eting IKKβ degradat	expression of oxidative called KEAP1) binds and degradation (1). Small a gulation of basal expres , KEAP1 releases NRF2, t E-containing genes (2). T response to oxidative str onary disease (COPD) (4 ates, and inhibition of N OZ domain and a carbox with NRF2, and the BTB mal conditions, the com oteasomal degradation of 2/KEAP1 complex. KEAP1 ion (11). Mutation of NRF2	stress response ge retains NRF2 in the mounts of constitu sion of antioxidant hereby allowing the che coordinated act ess (3). Altered exp). NRF2 activity in lu RF2 expression by s cyl terminal KELCH /POZ domain functi plex leads to the cy of NRF2. Electrophil also targets the do corresponding KE/	enes. Under basal e cytoplasm where tive nuclear NRF2 response genes. e activator to tion of NRF2 and ression of NRF2 is ing cancer cell lines siRNA enhances domain (6,7). The toplasmic lic modification of own regulation of
Background Ref	erences	1. Cullinan, S.B. et al. (2. Nguyen, T. et al. (20 3. Jaiswal, A.K. (2004) / 4. Suzuki, M. et al. (200 5. Homma, S. et al. (200 6. Itoh, K. et al. (1999) 7. Dhakshinamoorthy, 8. Furukawa, M. and X 9. Zhang, D.D. et al. (2 10. Kobayashi, A. et al 11. Lee, D.F. et al. (200 12. Padmanabhan, B. 13. Singh, A. et al. (200 14. Ohta, T. et al. (200 15. Onodera, Y. et al. (200	05) J Biol Chem 280 Free Radic Biol Med 08) Am J Respir Cell 09) Clin Cancer Res Genes Dev 13, 76-8 5. and Jaiswal, A.K. (iong, Y. (2005) Mol 004) Mol Cell Biol 24. (2004) Mol Cell Biol 09) Mol Cell 36, 131- et al. (2006) Mol Cell 06) PLoS Med 3, e42 8) Cancer Res 68, 13	, 32485-92. 36, 1199-207. <i>Mol Biol</i> 39, 673-82. 15, 3423-32. 6. (2001) <i>Oncogene</i> 20, 39 <i>Cell Biol</i> 25, 162-71. 4, 10941-53. 1/24, 7130-9. 40. //21, 689-700. 0.	06-17.	

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 IF-IC: Immunofluorescence (Immunocytochemistry)		
Cross-Reactivity Key	H: Human M: Mouse R: Rat		
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