e at -20C	KEAP1 (H436) Antibody		Cell Signaling TECHNOLOGY®	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
7		Support:	877-678-TECH (8324)	
#461		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Mas	ssachusetts 01923 USA	

Eor Research Lise Only	/ Not for Lise in	Diagnostic Procedures.
FUI RESEAICII USE UIII	. NULIULUSE III	Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60-64	Source: Rabbit	UniProt ID: #Q14145	Entrez-Gene Id: 9817
Product Usage Information	•	plication			Dilution	
		estern Blotting munoprecipitation			1:1000 1:50	
Storage	•	plied in 10 mM sodi C. Do not aliquot the	ŭ	5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –
Specificity / Sensitiv	vity KEA	AP1 (H436) Antibody	y detects endogend	ous levels of total KE	AP1 protein.	
Source / Purification	resid		is436 of human KE	U	h a synthetic peptide co dies were purified by pro	1 0
Background	targ cond can main Follo tran othe asso dired cand The dom in bi sequ KEA NF-1	et gene promoter re ditions, the NRF2 in be targeted for ubio ntain cellular homeo owing oxidative or e slocate to the nucle er transcription facto ociated with chronic ctly correlates with of cer drug-induced ap NRF2 repressor KE nain (6,7). The KELO inding Cul3 E3 ubiq uestration and ubiqu AP1 leads to disassor kB activity by target	egions to regulate e hibitor INrf2 (also o quitin-mediated deg ostasis through reg electrophilic stress, us and bind to ARE ors mediates the res obstructive pulmon cell proliferation rat ooptosis (5). EAP1 contains an a CH domain is requi uitin ligase (8-10). Uitin-mediated prote ociation of the NRF ing ΙΚKβ degradati	xpression of oxidati called KEAP1) binds iradation (1). Small a ulation of basal expr KEAP1 releases NF containing genes (sponse to oxidative es, and inhibition of umino terminal BTB/ red for interacting w Under normal condition casomal degradation 2/KEAP1 complex.	antioxidant response el ve stress response gene and retains NRF2 in the amounts of constitutive r ession of antioxidant res RF2, thereby allowing the 2). The coordinated acti- stress (3). Altered expre b) (4). NRF2 activity in lu NRF2 expression by siF POZ domain and a carb ith NRF2 and the BTB/P ions, the complex leads of NRF2. Electrophilic KEAP1 also targets the the corresponding KEAI RF2 (12-14).	es. Under basal e cytoplasm where it nuclear NRF2 sponse genes. e activator to on of NRF2 and ssion of NRF2 is ng cancer cell lines RNA enhances anti- oxyl terminal KELCH OZ domain functions to the cytoplasmic modification of down regulation of
Background Refere	2. N 3. Ja 4. S 5. H 6. Ita 7. D 8. F 9. Z 10. K 11. La 12. P 13. S	omma, S. et al. (20 oh, K. et al. (1999) (hakshinamoorthy, S	05) J Biol Chem 280 Free Radic Biol Me 18) Am J Respir Ce 09) Clin Cancer Re Genes Dev 13, 76-1 3. and Jaiswal, A.K. 009, Y. (2005) Mol 004) Mol Cell Biol 2 2004) Mol Cell Biol 2 2004) Mol Cell Biol) Mol Cell 36, 131-1 al. (2006) Mol Cell) PLoS Med 3, e42	D, 32485-92. d 36, 1199-207. <i>II Mol Biol</i> 39, 673-8 s 15, 3423-32. 36. (2001) <i>Oncogene 2</i> <i>Cell Biol</i> 25, 162-71 4, 10941-53. 24, 7130-9. 40. 21, 689-700. 0.	20, 3906-17.	

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

3/23/24, 1:29 PM	KEAP1 (H436) Antibody (#4617) Datasheet Without Images Cell Signaling Technology 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 IP: Immunoprecipitation	
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	
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.	
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.	
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.	