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e at -20C	Caspase-4 Antibody			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45	Source: Rabbit	UniProt ID: #P49662	Entrez-Gene Id: 837
Product Usage Information	A V	Application Vestern Blotting			Dilution 1:1000	
Storage	Si 20	upplied in 10 mM sodiur 0°C. Do not aliquot the a	m HEPES (pH 7.5 antibody.), 150 mM NaCl, 10	0 μg/ml BSA and 50% gl	ycerol. Store at –
Specificity / Sensiti	vity Ca of re	aspase-4 Antibody dete caspase-4 are observe act with other caspases	cts endogenous le d at 40 kDa and 3 s.	evels of total caspas 2 kDa as previously	e-4 protein. Processing i / reported (7). The antibo	ntermediate forms ody does not cross-
Species predicted t react based on 1009 sequence homology	ом % у:	onkey				
Source / Purification	n Po re by	olyclonal antibodies are sidues surrounding Ile1 / protein A and peptide a	produced by imm 25 within the p20 affinity chromatog	unizing animals witl subunit of human c raphy.	n a synthetic peptide corr aspase-4 protein. Antiboo	esponding to dies were purified
Background	Ci ex ob lyı ca ca pr th ar in st	aspase-4 (TX/ICH-2/ICI kecution of apoptosis ar oserved in most tissues mphocytes (PBL). Casp aspases (including casp aspase-1 and are capab roteolytic activation of in e LPS inducible produc nd mouse caspase-12 k duce ER stress (7), at ke ress-induced apoptosis	E _{rel} II) is a member ad activation of infl except brain, with base-4 was origina ase-4, caspase-5, ble of inducing apo flammatory cytoki tion of inflammato bcalize to the endo east one study sug (8).	of the caspase fam ammatory cytokines highest levels in pl- lly found to contribu and mouse caspas ptosis when overex nes (5). Caspase-4 ry cytokines IL-8 an oplasmic reticulum (ggests that caspase	ily of proteases that play s (1-3). Expression of cas acenta, lung, spleen, and te to Fas-mediated apop se-11 and -12) are most of pressed but are better ch associates with TRAF6 a d MIP1 in THP-1 cells (6 ER) and may be activate -4 and caspase-12 are n	a key role in the spase-4 has been I peripheral blood itosis (4). Several closely related to naracterized in the and is involved in). While caspase-4 id by drugs that ot essential for ER
Background Refere	nces 1. 2. 3. 4. 5. 6. 7. 8.	Faucheu, C. et al. (199 Kamens, J. et al. (1995 Munday, N.A. et al. (19 Kamada, S. et al. (19) Martinon, F. and Tscho Lakshmanan, U. and P Hitomi, J. et al. (2004). Obeng, E.A. and Boise	5) EMBO J 14, 19 5) J Biol Chem 270 95) J Biol Chem 2 7) Oncogene 15, 2 pp, J. (2007) Cell orter, A.G. (2007) J Cell Biol 165, 34 , L.H. (2005) J Bio	14-22. 0, 15250-6. 20, 15870-6. 285-90. Death Differ 14, 10- J Immunol 179, 848 7-56. Di Chem 280, 29578	22. 30-90. -87.	
Species Reactivity	Sp	ecies reactivity is deterr	nined by testing ir	n at least one appro	ved application (e.g., wes	stern blot).
Western Blot Buffer	r IMI 0.1	PORTANT: For western % Tween® 20 at 4°C w	blots, incubate me ith gentle shaking	embrane with dilute , overnight.	d primary antibody in 5%	w/v BSA, 1X TBS,
Applications Key	w	B: Western Blotting				

3/23/24, 11:10 AM Cross-Reactivity Key	Caspase-4 Antibody (#4450) Datasheet Without Images Cell Signaling Technology 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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