328 Store at -200

PAR-4 Antibody



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 41	Source: Rabbit	UniProt ID: #Q96IZ0	Entrez-Gene Id 5074
Product Usage Information	A	pplication				Dilution
	W	estern Blotting				1:1000
	Im	nmunoprecipitation				1:100
	Im	nmunofluorescence (I	mmunocytochemis	try)		1:100
	FI	ow Cytometry (Fixed	/Permeabilized)			1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		PAR-4 Antibody detects endogenous levels of PAR-4 protein.				
Source / Purificat	res	,	, ,	•	h a synthetic peptide co e purified by protein A a	
Background	PAR-4 (prostate apoptosis response-4) was identified as a protein that is upreguted cells undergoing apoptosis (1). Additionally, in parallel studies PAR-4 was found system to bind to the Wilms' tumor suppressor protein WT1 and may modulate volume transcriptional activation (2). PAR-4 contains a leucine zipper domain and a deal implicated as an effector of apoptosis during tumorigenesis as well as in neurode (3,4). PAR-4 is widely expressed in normal tissues but can be downregulated in mechanism of PAR-4 mediated apoptosis regulation appears to be complex and context. Studies have indicated roles for PAR-4 in activation of the Fas-FADD-ca as inhibition of the NF-kB pro-survival pathway (5-7). Its activity is likely to deper and post-translational modifications. For instance, phosphorylation of PAR-4 by a translocation thereby promoting cell survival (8). In contrast, phoshorylation of rappears to positively regulate its apoptotic activity (9).				PAR-4 was found in the day may modulate WT1-n domain and a death dor well as in neurodegene downregulated in some to be complex and depender in the Fas-FADD-caspasity is likely to depend on ation of PAR-4 by Akt pr	yeast two-hybrid nedated nain and has been erative disorders tumor types. The ndent on the cellular e-8 pathway as well the cellular context events its nuclear
Background Refe	2. 3 3. (Sells, S.F. et al. (1997) <i>Mol. Cell Biol.</i> 17, 3823-3832. Johnstone, R.W. et al. (1996) <i>Mol. Cell Biol.</i> 16, 6945-6956. Guo, Q. et al. (1998) <i>Nat. Med.</i> 4, 957-962. El-Guendy, N. and Rangnekar, V.M. (2003) <i>Exp. Cell Res.</i> 283, 51-66.				

- 4. El-Guendy, N. and Rangnekar, V.M. (2003) Exp. Cell Res. 283, 51-66.
- 5. Chakraborty, M. et al. (2001) Cancer Res. 61, 7255-7263.
- 6. Díaz-Meco, M.T. et al. (1996) Cell 86, 777-786.
- 7. Diaz-Meco, M.T. et al. (1999) J. Biol. Chem. 274, 19606-79612.
- 8. Goswami, A. et al. (2005) Mol. Cell 20, 33-44.
- 9. Gurumurthy, S. et al. (2005) Mol. Cell Biol. 25, 1146-1161.

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

3/23/24, 10:50 AM

Cross-Reactivity Key

Trademarks and Patents

Limited Uses

PAR-4 Antibody (#2328) 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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