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-20C
#36809**Caspase-14 (D3J3D) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28-30	Source/Isotype: Rabbit IgG	UniProt ID: #P31944	Entrez-Gene Id: 23581
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Product Usage Information	Application Western Blotting	Dilution 1:1000
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. <i>Do not aliquot the antibody.</i>	
Specificity/Sensitivity	Caspase-14 (D3J3D) Rabbit mAb recognizes endogenous levels of total caspase-14 protein. Endogenous levels of the p20 activated subunit have not been detected.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala71 of human caspase-14 protein.	
Background	Caspases are a family of cysteine proteases that play an essential role in carrying out apoptosis. Caspase-14, also named MICE, is a unique member of the caspase family with restricted expression; it is found in embryonic tissues and adult skin (1,2). Caspase-14 is weakly processed into p18 and p11 subunits by caspase-8 (2). Caspase-14 may not play a role in apoptosis (2), but instead may regulate keratinocyte differentiation (3). Expression of caspase-14 may protect from psoriasis (4,5) and irradiation damage (6). Caspase-14 may also be responsible for proteolytic processing of filaggrin during terminal differentiation of keratinocytes (6).	
Background References	<ol style="list-style-type: none"> Hu, S. et al. (1998) <i>J Biol Chem</i> 273, 29648-53. Van de Craen, M. et al. (1998) <i>Cell Death Differ</i> 5, 838-46. Eckhart, L. et al. (2000) <i>Biochem Biophys Res Commun</i> 277, 655-9. Lippens, S. et al. (2004) <i>Am J Pathol</i> 165, 833-41. Walsh, D.S. et al. (2005) <i>J Dermatol Sci</i> 37, 61-3. Denecker, G. et al. (2007) <i>Nat Cell Biol</i> 9, 666-74. 	

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	W: Western Blotting
Cross-Reactivity Key	H: Human
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