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#8519

## Caspase-14 Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	28-30, 11	Rabbit	#P31944	23581

### 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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

Caspase-14 Antibody recognizes endogenous levels of total caspase-14 protein and the p11 subunit of mature caspase-14.

### Species predicted to react based on 100% sequence homology

Monkey

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human caspase-14 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### 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

- Hu, S. et al. (1998) *J Biol Chem* 273, 29648-53.
- Van de Craen, M. et al. (1998) *Cell Death Differ* 5, 838-46.
- Eckhart, L. et al. (2000) *Biochem Biophys Res Commun* 277, 655-9.
- Lippens, S. et al. (2004) *Am J Pathol* 165, 833-41.
- Walsh, D.S. et al. (2005) *J Dermatol Sci* 37, 61-3.
- Denecker, G. et al. (2007) *Nat Cell Biol* 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 **M:** Mouse **R:** Rat

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