

Product Name: Caspase-14 (7P17) Rabbit Monoclonal Antibody
Catalog #: AMRe07965



Summary

Production Name	Caspase-14 (7P17) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	CASP14
Alternative Names	CASP14; Caspase-14; Caspase 14; MICE; CASP-14;
Gene ID	23581.0
SwissProt ID	P31944.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	28kDa

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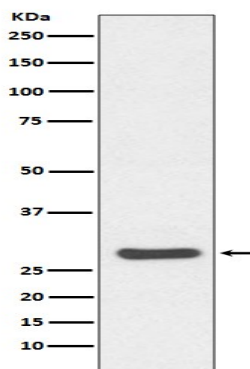


Background

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. Caspase-14 is weakly processed into p18 and p11 subunits by caspase-8. May also be responsible for proteolytic processing of filaggrin during terminal differentiation of keratinocytes. Non-apoptotic caspase involved in epidermal differentiation. Is the predominant caspase in epidermal stratum corneum (PubMed:[15556625](http://www.uniprot.org/citations/15556625)). Seems to play a role in keratinocyte differentiation and is required for cornification. Regulates maturation of the epidermis by proteolytically processing filaggrin (By similarity). In vitro has a preference for the substrate [WY]-X-X-D motif and is active on the synthetic caspase substrate WEHD-ACF (PubMed:[16854378](http://www.uniprot.org/citations/16854378), PubMed:[19960512](http://www.uniprot.org/citations/19960512)). Involved in processing of prosaposin in the epidermis (By similarity). May be involved in retinal pigment epithelium cell barrier function (PubMed:[25121097](http://www.uniprot.org/citations/25121097)). Involved in DNA degradation in differentiated keratinocytes probably by cleaving DFFA/ICAD leading to liberation of DFFB/CAD (PubMed:[24743736](http://www.uniprot.org/citations/24743736)).

Research Area

Image Data



Western blot analysis of Caspase-14 expression in Human skin lysate.

Note

For research use only.