

CASP14 / Caspase 14 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11405**Specification**

CASP14 / Caspase 14 Antibody (C-Terminus) - Product Information

Application	WB
Primary Accession	P31944
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28kDa KDa

CASP14 / Caspase 14 Antibody (C-Terminus) - Additional Information**Gene ID** 23581**Other Names**

Caspase-14, CASP-14, 3.4.22.-, Caspase-14 subunit p19, Caspase-14 subunit p10, CASP14

Target/Specificity

16 amino acid peptide from near the carboxy-terminus of human caspase-14

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

CASP14 / Caspase 14 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CASP14 / Caspase 14 Antibody (C-Terminus) - Protein Information**Name** CASP14**Function**

Non-apoptotic caspase involved in epidermal differentiation. Is the predominant caspase in epidermal stratum corneum (PubMed: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, PubMed:19960512). Involved in processing of prosaposin in the epidermis (By similarity). May be involved in retinal pigment epithelium cell barrier function (PubMed:25121097). Involved in DNA degradation in differentiated keratinocytes probably by cleaving DFFA/ICAD leading to liberation of DFFB/CAD (PubMed:24743736).

Cellular Location

Cytoplasm. Nucleus

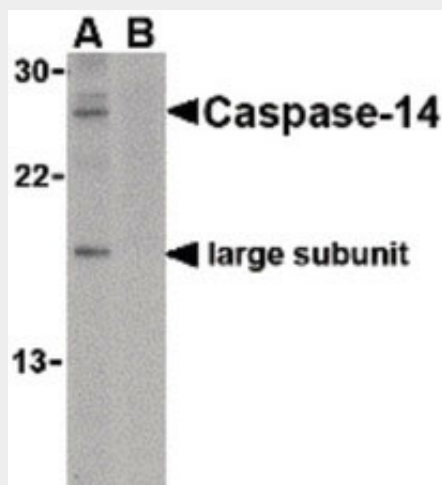
Tissue Location

Expressed in keratinocytes of adult skin suprabasal layers (from spinous layers to the stratum granulosum and stratum corneum) (at protein level). Expressed in keratinocytes of hair shaft and sebaceous glands (at protein level). In psoriatic skin only expressed at very low levels (PubMed:11175259). The p17/10 mature form is expressed in epidermis stratum corneum, the p20/p8 intermediate form in epidermis upper granular cells of the stratum granulosum (PubMed:22825846).

CASP14 / Caspase 14 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CASP14 / Caspase 14 Antibody (C-Terminus) - Images

Western blot of caspase-14 in Jurkat cell lysate in the (A) absence or (B) presence of blocking...

CASP14 / Caspase 14 Antibody (C-Terminus) - Background

Believed to be a non-apoptotic caspase which is involved in epidermal differentiation. Seems to play a role in keratinocyte differentiation and cornification. Probably regulates maturation of the epidermis by proteolytically processing filaggrin (By similarity).

CASP14 / Caspase 14 Antibody (C-Terminus) - References

Eckhart L., et al. Biochem. Biophys. Res. Commun. 277:655-659(2000).
Pistritto G., et al. Cell Death Differ. 9:995-1006(2002).
Rasmussen H.H., et al. Electrophoresis 13:960-969(1992).

Lippens S.,et al.Cell Death Differ. 7:1218-1224(2000).

Chien A.J.,et al.Biochem. Biophys. Res. Commun. 296:911-917(2002).