

Caspase-14 Blocking Peptide
Catalog # PBV10001b**Specification**

Caspase-14 Blocking Peptide - Product Information

Primary Accession	P31944
Gene ID	23581
Calculated MW	27680

Caspase-14 Blocking Peptide - Additional Information**Gene ID** 23581**Application & Usage**

The peptide is used for blocking the antibody Caspase-14. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

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

Target/Specificity

Caspase-14

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Caspase-14 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Caspase-14 Blocking Peptide - 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).

Caspase-14 Blocking Peptide - 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](#)

Caspase-14 Blocking Peptide - Images