

Product datasheet

Anti-Caspase-14 antibody [EPR12927] ab174847

Recombinant RabMAb

★★★★☆ [1 Abreviews](#) [4 References](#) [7 Images](#)

Overview

Product name	Anti-Caspase-14 antibody [EPR12927]
Description	Rabbit monoclonal [EPR12927] to Caspase-14
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB, IHC-P, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	MCF7, ECV-304, HACAT and Human skin lysates; fetal skin tissue; Human skin tissue; pellet from fetal skin lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12927
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab174847 in the following tested applications.

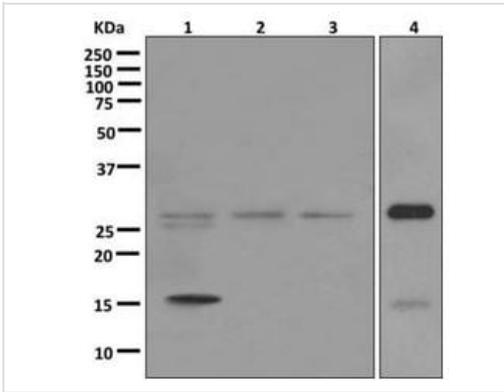
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/250.
WB		1/1000 - 1/10000. Predicted molecular weight: 28 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/10 - 1/100.

Target

Function	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.
Tissue specificity	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.
Sequence similarities	Belongs to the peptidase C14A family.
Cellular localization	Cytoplasm. Nucleus.

Images



Western blot - Anti-Caspase-14 antibody [EPR12927] (ab174847)

All lanes : Anti-Caspase-14 antibody [EPR12927] (ab174847) at 1/1000 dilution

Lane 1 : MCF7 cell lysate

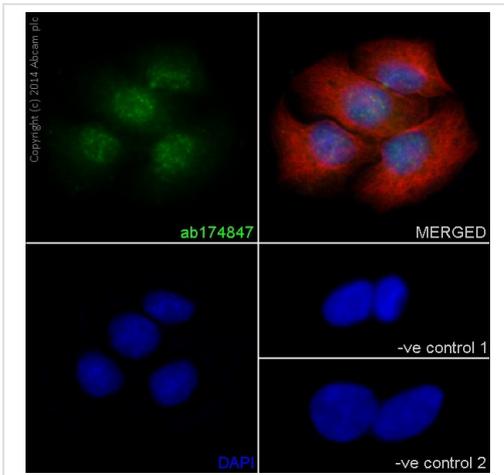
Lane 2 : ECV-304 cell lysate

Lane 3 : HACAT cell lysate

Lane 4 : Human skin lysate

Lysates/proteins at 10 µg per lane.

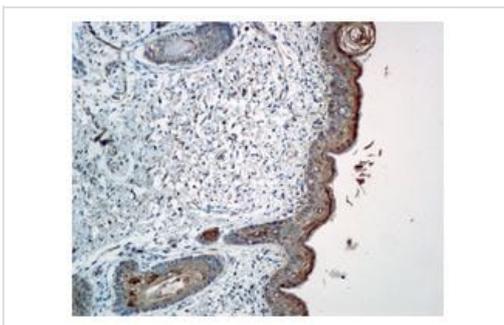
Predicted band size: 28 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Caspase-14 antibody [EPR12927] (ab174847)

Immunofluorescent staining of HaCaT cells labeling Caspase-14 (green) with ab174847 at 1:250 dilution, and labeling tubulin (red) with **ab7291** at 1:500 (2 µg/ml). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) was used at 1:200 and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) was used at 1:200.

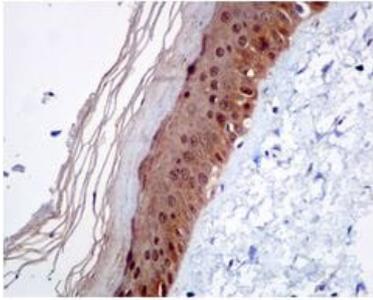
-ve control 1 – Rabbit primary and anti-mouse secondary antibody. -ve control 2 – Mouse primary antibody and anti-rabbit secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-14 antibody [EPR12927] (ab174847)

Immunohistochemical analysis of paraffin-embedded human fetal skin tissue labeling Caspase-14 using ab174847 at a 1:100 dilution.

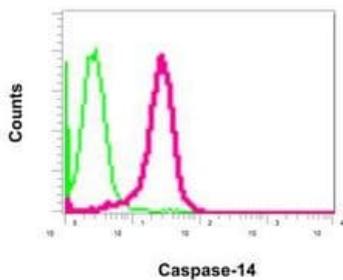
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-14 antibody [EPR12927] (ab174847)

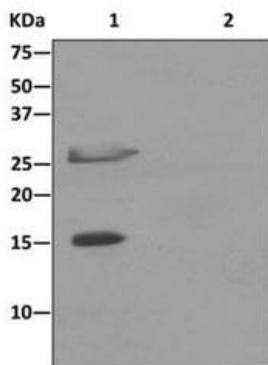
Immunohistochemical analysis of paraffin-embedded Human skin tissue labeling Caspase-14 using ab174847 at a 1:100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Caspase-14 antibody [EPR12927] (ab174847)

Intracellular flow cytometric analysis of permeabilized HACAT cells labeling Caspase-14 using ab174847 at a 1/10 dilution (red), or rabbit IgG negative control (green).



Immunoprecipitation - Anti-Caspase-14 antibody [EPR12927] (ab174847)

Western blot analysis on immunoprecipitation pellet from human fetal skin lysate (lane 1) or 1X PBS (lane 2, negative control) using ab174847 at 1:10 dilution, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Caspase-14 antibody [EPR12927] (ab174847)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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