OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Polyclonal Antibody to Caspase-14 (C-term) - Purified

Alternate names: CASP-14, CASP14

Catalog No.: AP05590PU-S

Quantity: 50 µg

Concentration: 0.5mg/ml

Background: Caspase-14 is a 27kD cysteine protease which is activated by zymogen processing during cellular differentiation. It is highly expressed by keratinocytes and trophoblast cells of the placenta, with lower expression in the choroid plexus, the pigmented layer of the retina, and hair follicles.
Expression of the caspase-14 gene has recently been identified in epithelial tumours, including cervical and bladder carcinoma. The biological function of caspase-14 in tumour and normal tissue remains to be classified.

Uniprot ID: P31944

NCBI: NP_036246.1

GeneID: 23581

Host / Isotype: Rabbit / IgG

Immunogen: A 16 amino acid peptide from near the carboxy-terminus of human Caspase-14.

Format: **State:** Liquid purified IgG
Buffer System: Phosphate buffered saline containing 0.02% Sodium Azide (NaN3)

Applications: Western blot: 1 - 2 µg/ml; detects a band of approximately 27kDa in Jurkat cell lysates. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects an epitope within the C-terminal (CT) region of human caspase-14.
Species: Human, Rat, Mouse.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for up to one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

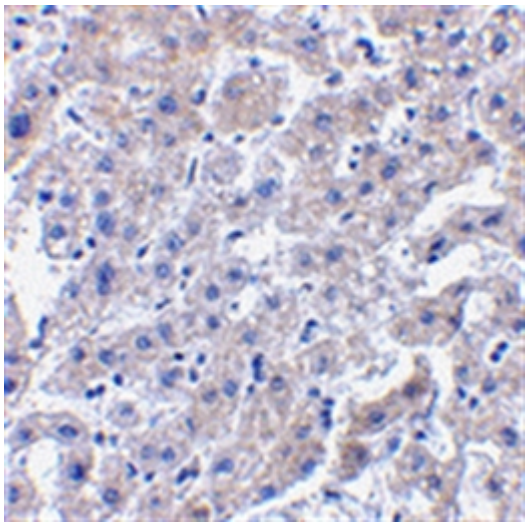
Caution: (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

General Readings: 1. Park K, Kuechle MK, Choe Y, Craik CS, Lawrence OT, Presland RB. Expression and characterization of constitutively active human caspase-14. Biochem Biophys Res Commun. 2006 Sep 8;347(4):941-8. Epub 2006 Jul 10. PubMed PMID: 16854378.
2. Koenig U. et al. (2005) Aberrant expression of caspase14 in epithelial tumors. Biochem

Biophys Res Commun. 335: 309 - 313.
3. White, L. et al. (2007) Caspase14: a new player in cytotrophoblast differentiation. Reprod. Biomed. Online. 14: 300 - 307.

Pictures:

Immunohistochemical staining of human liver with Rabbit anti caspase-14 (AP05590PU-N)



Western blot analysis of whole cell lysate from Jurkat cells probed with Rabbit anti caspase-14 (AP05590PU-N) either in the absence (A) or presence (B) of blocking peptide