

Anti-Caspase-14/CASP14 Antibody

Catalog Number: PA2104

About CASP14

Caspase 14 is an enzyme that in humans is encoded by the CASP14 gene. CASP14 belongs the evolutionarily conserved caspase family. CASP14 was assigned to chromosome 19p13.1. Using Northern blot and semiquantitative RT-PCR analyses, it was showed that CASP14 was transcriptionally upregulated during maintenance of confluent cultures of human epidermal keratinocytes. The expression and processing of this caspase may be involved in keratinocyte terminal differentiation, which is important for the formation of the skin barrier. Caspase 14 seems to play a role in keratinocyte differentiation and cornification and probably regulates maturation of the epidermis by proteolytically processing filaggrin.

Overview

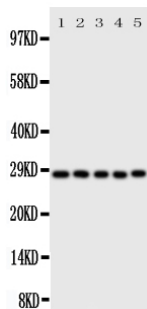
Product Name	Anti-Caspase-14/CASP14 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Caspase-14/CASP14 Antibody catalog # PA2104. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P31944

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Caspase-14, different from the related rat and mouse sequences by four amino acids.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-Caspase-14/CASP14 Antibody (PA2104) Images



Anti-Caspase-14 antibody, PA2104, Western blotting

All lanes: Anti Caspase-14 (PA2104) at 0.5ug/ml

Lane 1: Rat Brain Tissue Lysate at 50ug

Lane 2: Rat Liver Tissue Lysate at 50ug

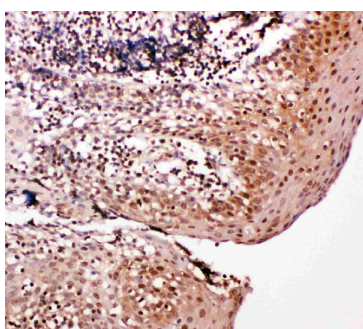
Lane 3: Rat Spleen Tissue Lysate at 50ug

Lane 4: A431 Whole Cell Lysate at 40ug

Lane 5: NIH3T3 Whole Cell Lysate at 40ug

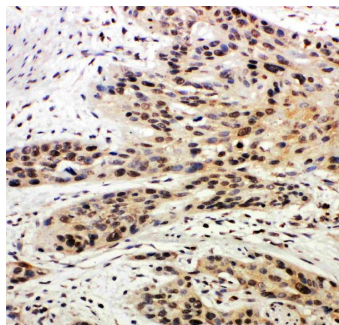
Predicted bind size: 28KD

Observed bind size: 28KD



Anti-Caspase-14 antibody, PA2104, IHC(P)

IHC(P): Human Tonsil Tissue



Anti-Caspase-14 antibody, PA2104, IHC(P)

IHC(P): Human Oesophagus Squama Cancer Tissue

1 Publications Citing This Product

1. PubMed ID: 27581210, Epigallocatechin-3-gallate (EGCG) inhibits imiquimod-induced psoriasis-like inflammation of BALB/c mice

Visit bosterbio.com/anti-caspase-14-antibody-pa2104-boster.html to see all 1 publications.

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