Anti-Caspase-14 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013994

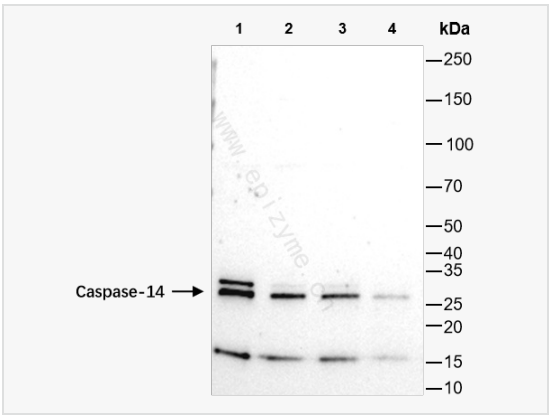
Product Information

Application	IF (Cell)/ICC, WB, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	98H72Q31
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Caspase-14
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Caspase-14 Rabbit mAb [98H72Q31] is for research use only and not for use in diagnostic or therapeutic procedures.

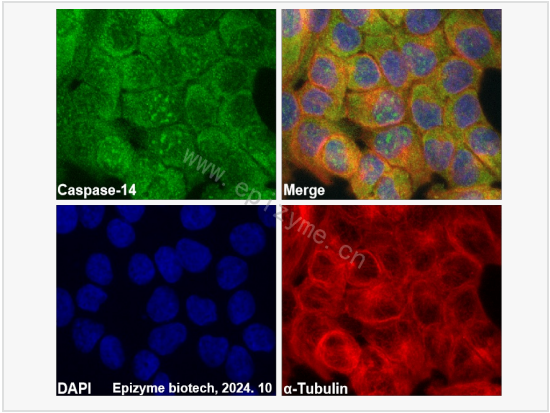
Protein Information

Synonyms	Apoptosis related cysteine protease, CASP 14, CASP-14, CASP14, Caspase 14 apoptosis related cysteine protease, Caspase 14 precursor, Caspase-14 subunit p10, Caspase14, CASPE_HUMAN, MGC119078, MGC119079, MICE, Mini ICE.
Calculated MW	Calculated MW: 28 kDa; Observed MW: 28 kDa
Uniprot ID	P31944
Gene ID	23581
Background	Caspases are a family of cysteine proteases that play an essential role in carrying out apoptosis. Caspase-14, also named MICE, is a unique member of the caspase family with restricted expression; it is found in embryonic tissues and adult skin. Caspase-14 is weakly processed into p18 and p11 subunits by caspase-8. May also be responsible for proteolytic processing of filaggrin during terminal differentiation of keratinocytes.
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.

Validation Images



Western Blot - Anti-Caspase-14 Rabbit mAb [98H72Q31]
All lanes: R013994 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 28 kDa
Observed band size: 28 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Caspase-14 Rabbit mAb [98H72Q31]
Sample: HCT116 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013994 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).