Data Sheet (Cat.No.TMAY-02114)

TargetMol

Anti-Caspase-14 Antibody (6X805)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6X805
Purification:	Protein A

Applications

Verified Activity:	1. Immunofluorescence staining of Human CSAP14 in Hela cells. Cells were fixed with 4% PFA, permeabilzed with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human CASP14 monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm and Nucleus. 2. Immunochemical staining of human CASP14 in human skin with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
Application:	ICC/IF,IHC-P
Recommended	IHC-P: 1:100-1:500; ICC-IF: 1:20-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Caspase-14 / CASP14 protein (TMPY-01824)
Antigen Species:	Human
Synonyms:	caspase 14, apoptosis-related cysteine peptidase;ARCI12

Research Background

Caspase 14 is a member of the caspase family. Caspases are a kind of cysteine proteinase consisting of a prodomain plus large and small catalytic subunits, that play a central role in cell apoptosis. Caspase 14 possesses an unusually short prodomain and is highly expressed in embryonic tissues but absent from most of the adult tissues except for the skin, which suggests a role in ontogenesis and skin physiology. Unlike the other short prodomain caspases (caspase-3, caspase-6, and caspase-7), Caspase 14 was not processed by multiple death stimuli including activation of members of the tumor necrosis factor receptor family and expression of proapaptotic members of the bcl-2 family. Caspase 14 has been described to be processed and activated by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may take part in keratinocyte terminal differentiation, which is essential for the skin barrier.

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