Caspase-14 Polyclonal Antibody

Catalog No :	YC0023
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	Caspase-14
Gene Name :	CASP14
Protein Name :	Caspase14
Human Gene Id :	23581
Human Swiss Prot No :	P31944
Mouse Swiss Prot No :	O89094
Immunogen :	Synthesized peptide derived from Caspase-14 . at AA range: 110-190
Specificity :	Caspase-14 Polyclonal Antibody detects endogenous levels of Caspase-14 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	27kD

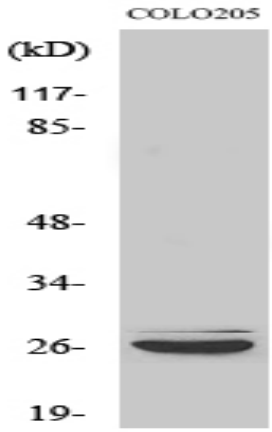
Background : This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This caspase has been shown to be processed and activated by caspase 8 and caspase 10 in vitro, and by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may be involved in keratinocyte terminal differentiation, which is important for the formation of the skin barrier. [provided by RefSeq, Jul 2008],

Function : 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.,induction:In undifferentiated keratinocytes under postconfluency growth conditions (in vitro).,similarity:Belongs to the peptidase C14A family.,subunit:Complex of unprocessed caspase-14 and processed 19 kDa (p19) and 10 kDa (p10) subunits.,tissue specificity:Expressed in kerotinocytes 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.,

Subcellular Location : Cytoplasm . Nucleus .

Expression : 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 (PubMed:11175259). The p17/10 mature form is expressed in epidermis stratum corneum, the p20/p8 intermediate form in epidermis upper granular cells of the stratum granulosum (PubMed:22825846).

Products Images



Western Blot analysis of various cells using Caspase-14 Polyclonal Antibody