

For Research Use Only

CASP14 Polyclonal antibody

Catalog Number: 28136-1-AP



Basic Information

Catalog Number: 28136-1-AP	GenBank Accession Number: BC069541	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 µg/ml by Nanodrop;	GeneID (NCBI): 23581	Recommended Dilutions: WB 1:1000-1:6000
Source: Rabbit	Full Name: caspase 14, apoptosis-related cysteine peptidase	
Isotype: IgG	Calculated MW: 242 aa, 28 kDa	
Immunogen Catalog Number: AG27242	Observed MW: 35 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse skin tissue, rat skin tissue
Species Specificity: Human, mouse, rat	

Background Information

Caspase14 belongs to the caspase family of cysteinyl aspartate-specific proteinases that frequently play a central role in apoptosis. Caspase14 exist as inactive proenzymes that undergo proteolytic processing to produce large and small subunits (p20 and p10) at Ile152/Lys153 residues, which is different to other caspases (Asp residue). Caspase14 plays a role in protein maturation of filaggrin, and possibly in DNA repair. Overexpression of Caspase14 has been detected in several of epithelial malignancies, indicating that Caspase14 could play a role in carcinogenesis and disease progression of cancers. Caspase14 can binds the apoptosis-inducing factor (AIF) indicating that caspase14 may be an anti-apoptotic protein. In the LADC specimens, two bands can be detected with MW of 35 kDa and 37 kDa which represent Caspase14 and the phosphorylated Caspase14(pCasp-14) respectively. (PMID:21567094, 12200134, 10203698, 17515931, 16061209). This antibody can recognise all the forms of Caspase14.

Storage

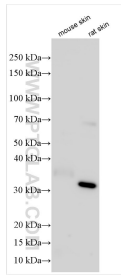
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28136-1-AP (CASP14 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.