

For Research Use Only

# CASP14 Polyclonal antibody

Catalog Number: 28136-1-AP



## Basic Information

**Catalog Number:**

28136-1-AP

**Size:**

800 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG27242

**GenBank Accession Number:**

BC069541

**GeneID (NCBI):**

23581

**UNIPROT ID:**

P31944

**Full Name:**

caspase 14, apoptosis-related  
cysteine peptidase

**Calculated MW:**

242 aa, 28 kDa

**Observed MW:**

35 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

Human, mouse, rat

**Positive Controls:**

WB : mouse skin tissue, rat skin tissue

## 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

For technical support and original validation data for this product please contact:

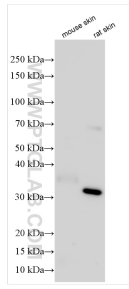
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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.