



Rabbit Anti-Calpain 12 antibody

SL6798R

Product Name:	Calpain 12
Chinese Name:	钙激活蛋白酶12抗体
Alias:	Calpain12; Calpain-12; CAPN 12; CAPN12; EC 3.4.22.; MGC20576; CAN12_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	81kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Calpain 12:201-310/719
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Calpains are a family of cytosolic calcium activated cysteine proteases involved in a variety of cellular processes including apoptosis, cell division, modulation of integrin and cytoskeletal interactions, and synaptic plasticity. Calpain 12 was first described in the mouse, most strongly in the skin, and maps to mouse chromosome 7. Isoforms differ in the carboxyterminal ends, ending with aberrant domain III and lacking domain IV. Domains in the large subunit include the amino terminal domain I, the proteinase

domain II, domain III, and the EF hand domain IV, making Calpain 12 most similar to calpains 1 and 2.

Function:

Calcium-regulated non-lysosomal thiol-protease (By similarity).

Similarity:

Belongs to the peptidase C2 family.
Contains 1 calpain catalytic domain.
Contains 1 EF-hand domain.

SWISS:

Q6ZSI9

Gene ID:

147968

Database links:

[Entrez Gene: 147968](#)Human

[Entrez Gene: 60594](#)Mouse

[Entrez Gene: 308476](#)Rat

[Omim: 608839](#)Human

[SwissProt: Q6ZSI9](#)Human

[SwissProt: Q9ER56](#)Mouse

[Unigene: 731775](#)Human

[Unigene: 476990](#)Mouse

[Unigene: 219171](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.