



Rabbit Anti-Caspase-12 antibody

SL1105R

Product Name:	Caspase-12
Chinese Name:	半胱氨酸蛋白酶蛋白-12抗体
Alias:	UNQ9415; Apoptosis related cysteine protease; CASP 12; casp12; CASP12P1; Caspase 12 pseudogene 1; CASP-12; casp12; caspase 12 (gene/pseudogene); Caspase12; CASPC_HUMAN; OTTHUMP00000207026; OTTHUMP00000207028; OTTHUMP00000207031; OTTHUMP00000207032; OTTHUMP00000219058; UNQ9415.
文献引用 PubMed :	<p>Specific References(6) SL1105R has been referenced in 6 publications.</p> <p>[IF=2.20]Zhang, Huiying, et al. "Glucose-regulated protein 78 may play a crucial role in promoting the pulmonary microvascular remodeling in a rat model of hepatopulmonary syndrome." Gene (2014).IHC-P;Rat. PubMed:24768185</p> <p>[IF=1.88]Zhou, Yunchuan, et al. "Sulfiredoxin-1 exerts anti-apoptotic and neuroprotective effects against oxidative stress-induced injury in rat cortical astrocytes following exposure to oxygen-glucose deprivation and hydrogen peroxide."International Journal of Molecular Medicine (2015).WB;Rat. PubMed:25955519</p> <p>[IF=1.89]Zhang, Lili, et al. "Increased expression of 78 kD glucose-regulated protein promotes cardiomyocyte apoptosis in a rat model of liver cirrhosis." International Journal of Clinical and Experimental Pathology 8.8 (2015): 9256-9263.IHC-P;Rat. PubMed:26464674</p> <p>[IF=4.65]Yu, H., et al. "Gypenoside Protects against Myocardial Ischemia-Reperfusion Injury by Inhibiting Cardiomyocytes Apoptosis via Inhibition of CHOP Pathway and</p>

	<p>Activation of PI3K/Akt Pathway In Vivo and In Vitro."Cellular Physiology and Biochemistry 39.1 (2016): 123-136.WB;Rat.</p> <p style="text-align: center;">PubMed:27322831</p> <p>[IF=2.29]Wang, Yu, et al. "Ibutilide protects against cardiomyocytes injury via inhibiting endoplasmic reticulum and mitochondrial stress pathways." Heart and Vessels (2016): 1-8.WB;Rat.</p> <p style="text-align: center;">PubMed:27639990</p> <p>[IF=3.23]Wang, Yu, et al. "Ibutilide treatment protects against ER stress induced apoptosis by regulating calumenin expression in tunicamycin treated cardiomyocytes." PloS one 12.4 (2017): e0173469.WB;Rat.</p> <p style="text-align: center;">PubMed:28399139</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=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:	46kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from the middle of human Caspase-12:201-300/420
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:	Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been

noted for this gene. [provided by RefSeq, Feb 2011].

Function:

Has no protease activity. May reduce cytokine release in response to bacterial lipopolysaccharide during infections. Reduces activation of NF-kappa-B in response to TNF.

Tissue Specificity:

Detected in heart, kidney, liver, lung, pancreas, small intestine, spleen, stomach, thymus and testis.

Similarity:

Belongs to the peptidase C14A family.
Contains 1 CARD domain.

SWISS:

O08736

Gene ID:

100506742

Database links:

[Entrez Gene: 100506742](#) Human

[Entrez Gene: 12364](#) Mouse

[Entrez Gene: 156117](#) Rat

[SwissProt: Q6UXS9](#) Human

[SwissProt: O08736](#) Mouse

[SwissProt: Q920D5](#) Rat

[Omim: 608633](#) Human

[Unigene: 476989](#) Human

[Unigene: 81078](#) Rat

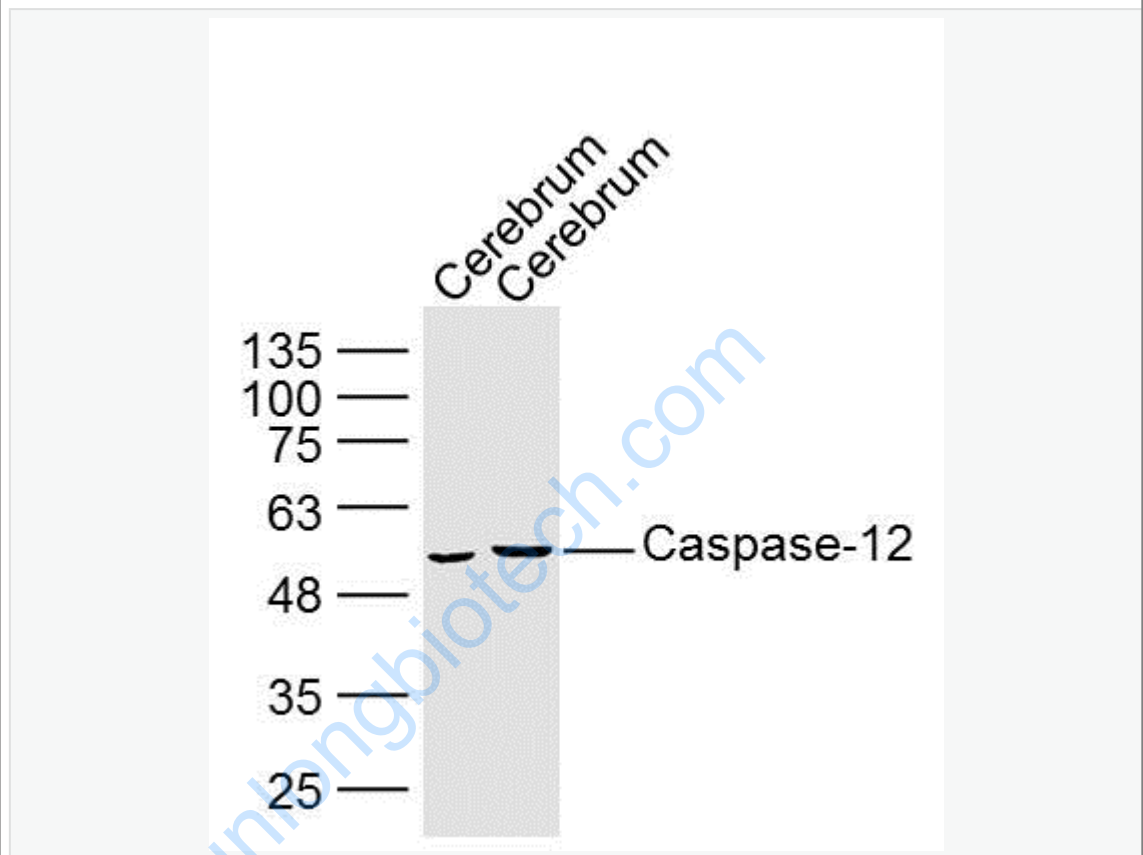
Important Note:

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

Caspase-

12是caspase家族成员, 是存在于内质网上的促凋亡因子, 内质网应激早期可通过GRP(glucose-regulated protein, GRP)的表达增多来保护细胞; CASPASE-12是内质网细胞关键介导因子, caspase-12还是caspase-1的抑制剂。

Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

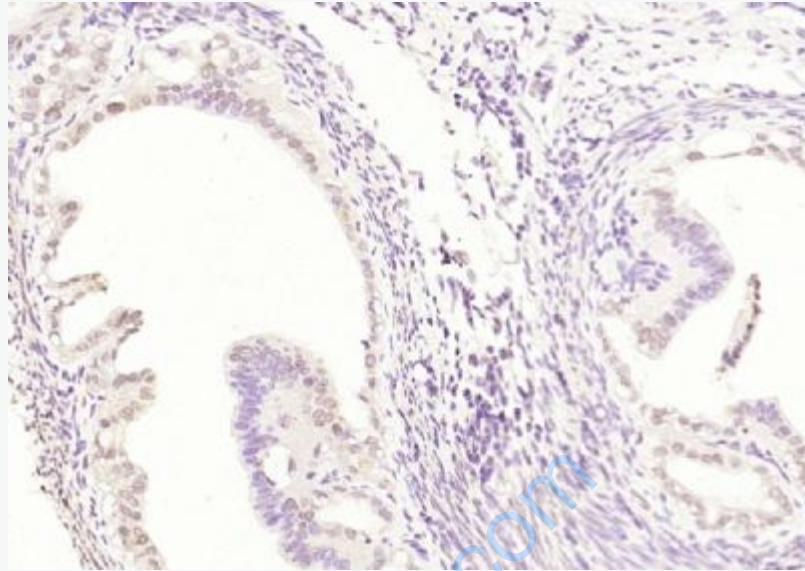
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-alpha smooth muscle Actin (SL1105R) at 1/300 dilution

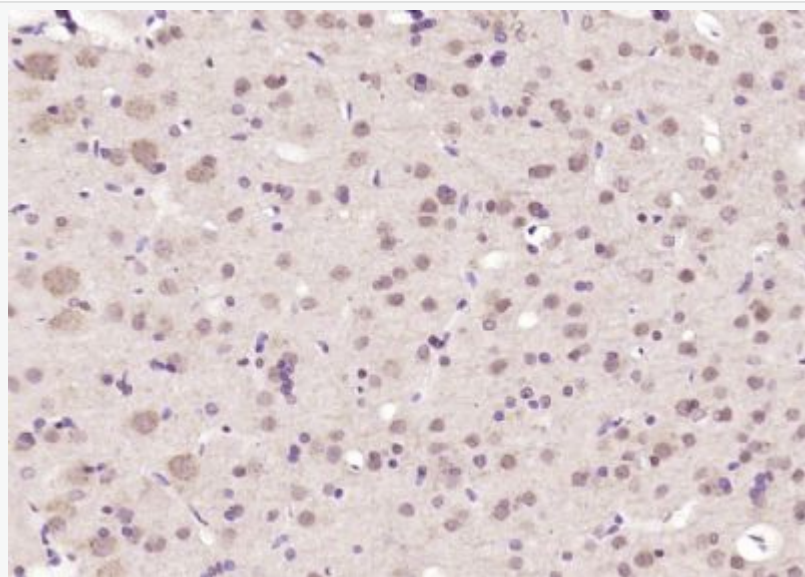
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 46 kD

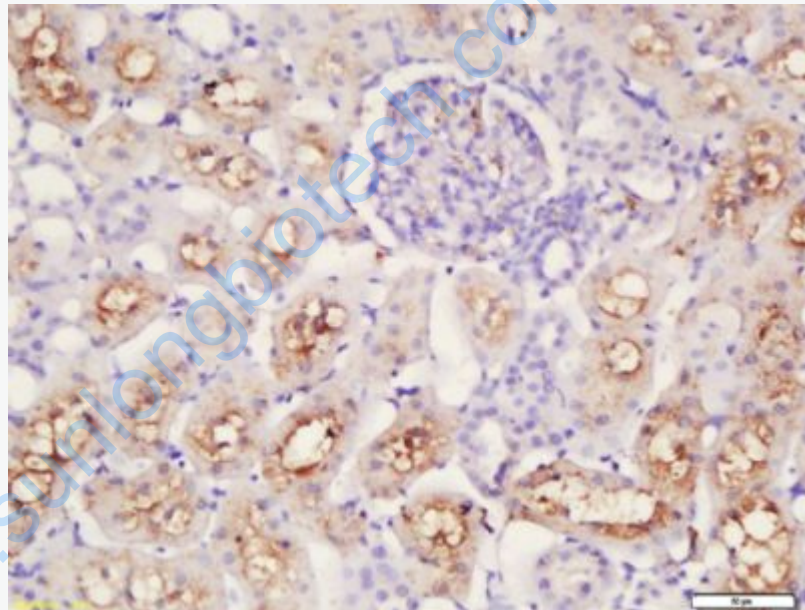
Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (mouse fallopian tube); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Caspase-12) Polyclonal Antibody, Unconjugated (SL1105R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

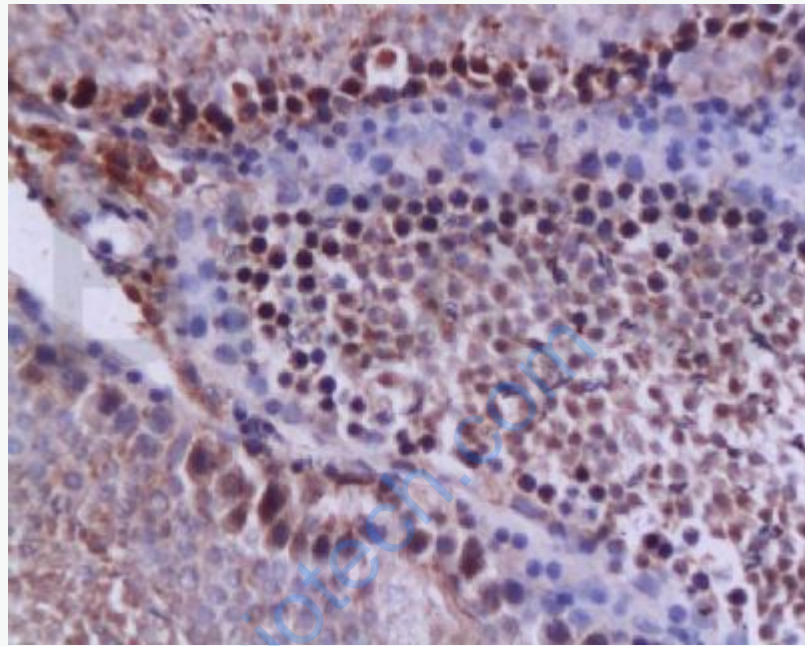


Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Caspase-12) Polyclonal Antibody, Unconjugated (SL1105R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Caspase-12 Polyclonal Antibody, Unconjugated(SL1105R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

DAB(C-0010) staining



Tissue/cell: rat testis tissue (high fat); 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-NPY/Neuropeptide Y Polyclonal Antibody,

Unconjugated(SL1105R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining