



## Rabbit Anti-Caspase-2 p18 antibody

SL23455R

<b>Product Name:</b>	Caspase-2 p18
<b>Chinese Name:</b>	活化半胱氨酸蛋白酶蛋白-2抗体
<b>Alias:</b>	Caspase-2 subunit p18; CASP 2; CASP-2; Casp2; CASP2_HUMAN; Caspase 2; Caspase 2 apoptosis related cysteine peptidase; Caspase2; ICH 1; ICH 1 protease; ICH 1L; ICH1; ICH1 protease; ICH1L; NEDD-2; NEDD2; Neural precursor cell expressed developmentally down-regulated protein 2; PPP1R57; Protease ICH-1; Protein phosphatase 1 regulatory subunit 57.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	18/51kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Caspase-2 subunit p18:251-350/452
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Caspases mediate cellular apoptosis through the proteolytic cleavage of specific protein

substrates. The encoded protein may function in stress-induced cell death pathways, cell cycle maintenance, and the suppression of tumorigenesis. Increased expression of this gene may play a role in neurodegenerative disorders including Alzheimer's disease, Huntington's disease and temporal lobe epilepsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

**Function:**

Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival.

**Subunit:**

Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a p18 subunit and a p12 subunit. Interacts with LRDD. Interacts with NOL3 (via CARD domain); inhibits CASP2 activity in a phosphorylation-dependent manner.

**Tissue Specificity:**

Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.

**Post-translational modifications:**

The mature protease can process its own propeptide, but not that of other caspases.

**Similarity:**

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

**SWISS:**

P42575

**Gene ID:**

835

**Database links:**

[Entrez Gene: 835](#)Human

[Entrez Gene: 12366](#)Mouse

[Entrez Gene: 64314](#)Rat

[Oimim: 600639](#)Human

[SwissProt: P42575](#)Human

[SwissProt: P29594](#)Mouse

[SwissProt: P55215](#)Rat

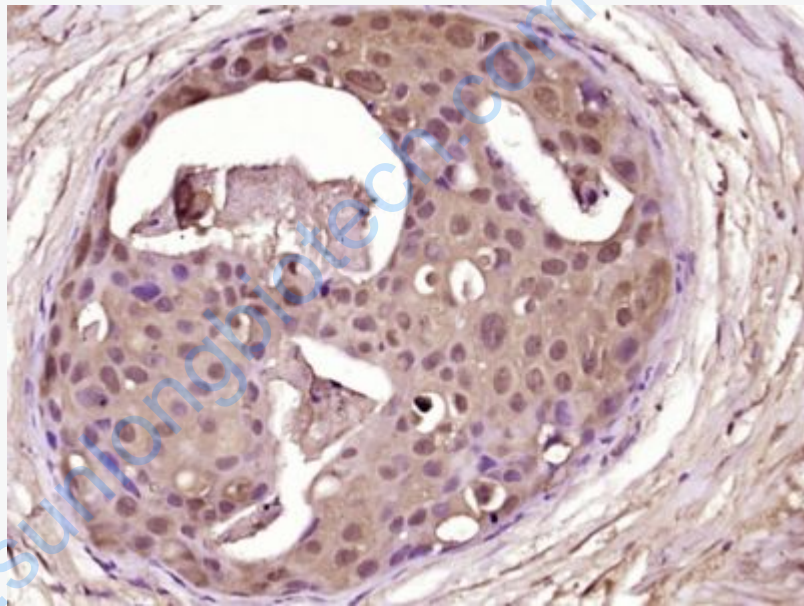
[Unigene: 368982](#)Human

[Unigene: 3921](#)Mouse

[Unigene: 1438](#)Rat

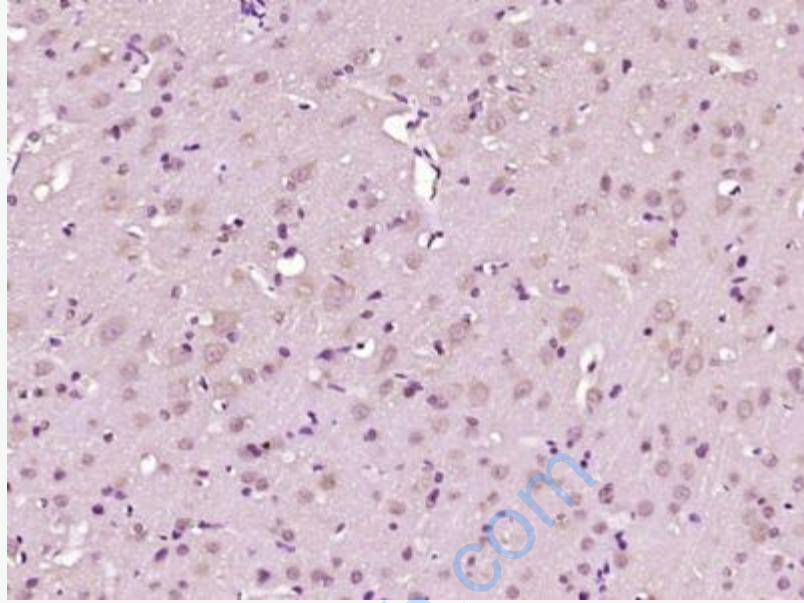
**Important Note:**

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

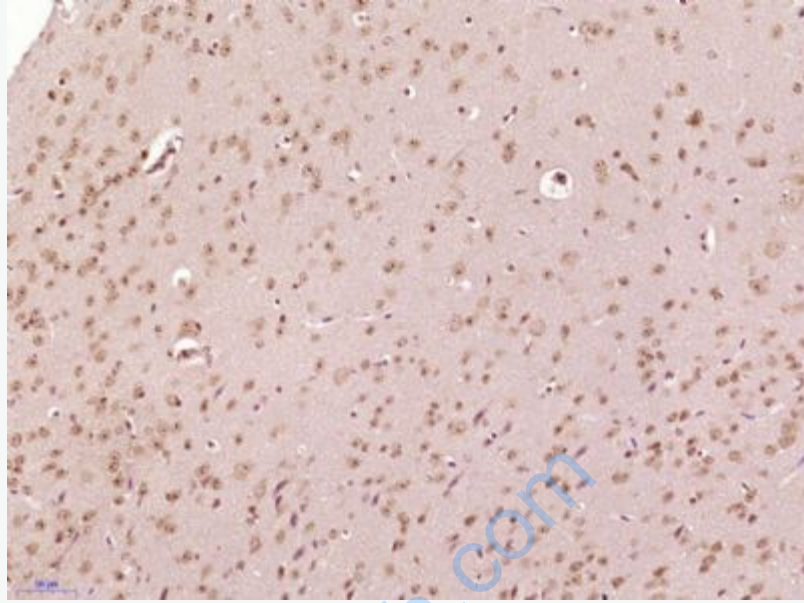


**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); 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-2 p18) Polyclonal Antibody, Unconjugated (SL23455R) at 1:400 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-2 p18) Polyclonal Antibody, Unconjugated (SL23455R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse 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-2 p18) Polyclonal Antibody, Unconjugated (SL23455R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.