

## Caspase-2 (phospho Ser157) Polyclonal Antibody

YP0997 Catalog No:

Reactivity: Human;Rat;Mouse;

**Applications:** IHC;IF;ELISA

Caspase-2 **Target:** 

Fields: >>Apoptosis

Gene Name: CASP2

**Protein Name:** Caspase2

**Human Gene Id:** 835

**Human Swiss Prot** 

P42575

No:

**Mouse Swiss Prot** 

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

Caspase 2 around the phosphorylation site of Ser157. AA range:123-172

Phospho-Caspase-2 (S157) Polyclonal Antibody detects endogenous levels of **Specificity:** 

Caspase-2 protein only when phosphorylated at S157.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

P29594

IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200 **Dilution:** 

The antibody was affinity-purified from rabbit antiserum by affinity-**Purification:** 

chromatography using epitope-specific immunogen.

**Concentration:** 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

1/3

Molecularweight: 51kD

**Background :** 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:** alternative products:Isoforms differ in the N- and C-termini,catalytic activity:Strict

requirement for an Asp residue at P1, with 316-asp being essential for proteolytic

activity and has a preferred cleavage sequence of Val-Asp-Val-Ala-

Asp-|-.,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.,PTM:The mature

protease can process its own propeptide, but not that of other

caspases., similarity: Belongs to the peptidase C14A family., similarity: Contains 1 CARD domain., subunit: Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a p18 subunit and a p12 subunit. Interacts with LRDD., tissue specificity: Expressed at higher levels in the embryonic lung, liver

and kidney than in the heart and b

Subcellular Location:

nucleus, cytoplasm, mitochondrion, cytosol, membrane,

**Expression:** 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.

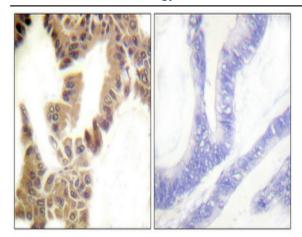
**Sort :** 3162

No4: 1

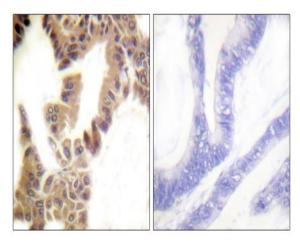
**Host:** Rabbit

**Modifications:** Phospho

## **Products Images**



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using Caspase 2 (Phospho-Ser157) Antibody. The picture on the right is blocked with the phospho peptide.