

Caspase-2 (Phospho Ser157) Rabbit pAb

CatalogNo: YP0997

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, IF, ELISA

MW

- 51kD (Calculated)

Isotype

- IgG

Storage

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

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

Recommended Dilution Ratios

IHC 1:100-1:300

ELISA 1:10000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Caspase 2 around the phosphorylation site of Ser157. AA range:123-172

Specificity Phospho-Caspase-2 (S157) Polyclonal Antibody detects endogenous levels of Caspase-2 protein only when phosphorylated at S157. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RLSTD

Target Information

Gene name CASP2

Protein Name Caspase2

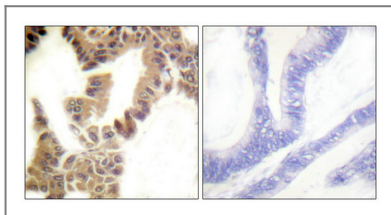
Organism	Gene ID	UniProt ID
Human	835;	P42575;
Mouse		P29594;

Cellular Localization nucleus ,cytoplasm ,mitochondrion ,cytosol ,membrane ,

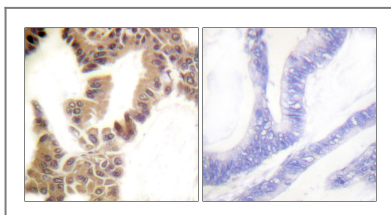
Tissue specificity Expressed at higher levels in the embryonic lung , liver and kidney than in the heart and brain. In adults , higher level expression is seen in the placenta , lung , kidney , and pancreas than in the heart , brain , liver and skeletal muscle.

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

Validation Data



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed 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.

Contact information

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Ser157) Rabbit pAb**

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