

## Caspase-8 (Phospho Tyr380) Rabbit pAb

CatalogNo: YP0403 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA

#### MW

- 55kD (Observed)

#### 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

**WB 1:500-1:2000**

**ELISA 1:10000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Caspase 8 around the phosphorylation site of Tyr380. AA range:346-395

**Specificity** Phospho-Caspase-8 (Y380) Polyclonal Antibody detects endogenous levels of Caspase-8 protein only when phosphorylated at Y380. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):QPYLE

## Target Information

**Gene name** CASP8 MCH5

**Protein Name** Caspase8

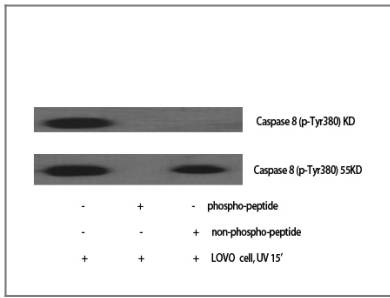
Organism	Gene ID	UniProt ID
Human	<a href="#">841</a> ;	<a href="#">Q14790</a> ;
Mouse	<a href="#">12370</a> ;	<a href="#">O89110</a> ;

**Cellular Localization** Cytoplasm . Nucleus .

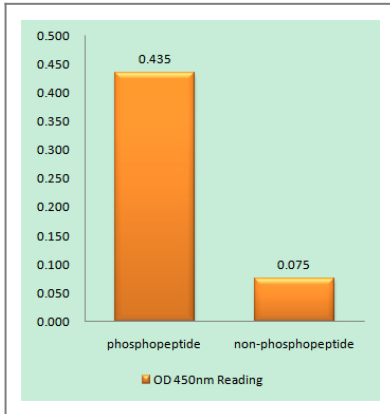
**Tissue specificity** Isoform 1 , isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes , spleen , thymus and liver. Barely detectable in brain , testis and skeletal muscle.

**Function** Catalytic activity:Strict requirement for Asp at position P1 and has a preferred cleavage sequence of (Leu/Asp/Val) -Glu-Thr-Asp-|- (Gly/Ser/Ala) . ,Disease:Defects in CASP8 are the cause of caspase-8 deficiency (CASP8D) [MIM:607271]. CASP8D is a disorder resembling autoimmune lymphoproliferative syndrome (ALPS) . It is characterized by lymphadenopathy , splenomegaly , and defective CD95-induced apoptosis of peripheral blood lymphocytes (PBLs) . It leads to defects in activation of T-lymphocytes , B-lymphocytes , and natural killer cells leading to immunodeficiency characterized by recurrent sinopulmonary and herpes simplex virus infections and poor responses to immunization. ,Domain:Isoform 9 contains a N-terminal extension that is required for interaction with the BCAP31 complex. ,Function:Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3 , CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3 , CASP4 , CASP6 , CASP7 , CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate , Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoforms 5 , 6 , 7 and 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex. ,online information:CASP8 mutation db ,polymorphism:Genetic vaiations in CASP8 are associated with reduced risk of lung cancer [MIM:211980] in a population of Han Chinese subjects. Genetic vaiations are also associated with decreased risk of cancer of various other forms including esophageal , gastric , colorectal , cervical , and breast , acting in an allele dose-dependent manner. ,PTM:Generation of the subunits requires association with the death-inducing signaling complex (DISC) , whereas additional processing is likely due to the autocatalytic activity of the activated protease. GZMB and CASP10 can be involved in these processing events. ,PTM:Phosphorylated upon DNA damage , probably by ATM or ATR. ,similarity:Belongs to the peptidase C14A family. ,similarity:Contains 2 DED (death effector) domains. ,subunit:Heterotetramer that consists of two anti-parallel arranged heterodimers , each one formed by a 18 kDa (p18) and a 10 kDa (p10) subunit. Interacts with FADD , CFLAR and PEA15. Isoform 9 interacts at the endoplasmic reticulum with a complex containing BCAP31 , BAP29 , BCL2 and/or BCL2L1. Interacts with TNFAIP8L2. ,tissue specificity:Isoforms 1 , 5 and 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes , spleen , thymus , and liver. Barely detectable in brain , testis , and skeletal muscle. ,

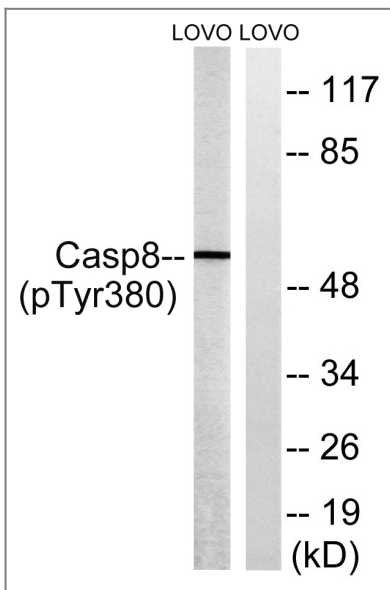
## Validation Data



Western Blot analysis of various cells using Phospho-Caspase-8 (Y380) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Caspase 8 (Phospho-Tyr380) Antibody



Western blot analysis of lysates from LOVO cells treated with UV 15', using Caspase 8 (Phospho-Tyr380) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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