

## Anti-Caspase-1 CASP1 Rabbit Monoclonal Antibody

Catalog Number: M00048

### About CASP1

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

### Overview

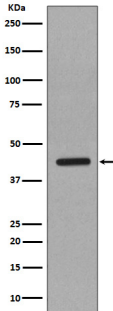
|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Caspase-1 CASP1 Rabbit Monoclonal Antibody                                                                                                    |
| Reactive Species     | Human, Rat                                                                                                                                         |
| Description          | Boster Bio Anti-Caspase-1 CASP1 Rabbit Monoclonal Antibody catalog # M00048. Tested in WB, IHC applications. This antibody reacts with Human, Rat. |
| Application          | IHC, WB                                                                                                                                            |
| Clonality            | Monoclonal DCB-3                                                                                                                                   |
| Formulation          | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.         |
| Host                 | Rabbit                                                                                                                                             |
| Uniprot ID           | P29466                                                                                                                                             |

### Technical Details

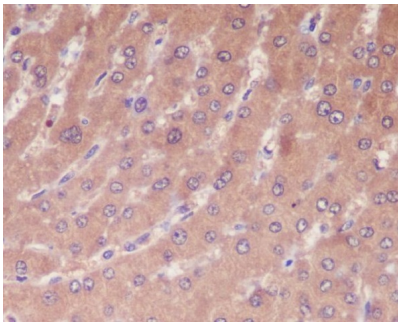
|                     |                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthesized peptide derived from human Caspase-1                                                                                                                                                                                                                                                                                             |
| Isotype             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                     |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                         |
| Concentration       | Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.                                                                                                                                                                                                                                                   |
| Purification        | Affinity-chromatography                                                                                                                                                                                                                                                                                                                        |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows: |

Boster Bio's internal QC testing used:  
WB 1:500-1:2000  
IHC 1:50-1:200

## Anti-Caspase-1 CASP1 Rabbit Monoclonal Antibody (M00048) Images



Western blot analysis of Caspase-1 in HeLa cell lysate.



Immunohistochemical analysis of paraffin-embedded human liver, using Caspase-1 Antibody.

## 3 Publications Citing This Product

1. PubMed ID: 33549657, Zhang XL, Huang WM, Tang PC, Sun Y, Zhang X, Qiu L, Yu BC, Zhang XY, Hong YX, He Y, Ge XQ. Anti-inflammatory and neuroprotective effects of natural cordycepin in rotenone-induced PD models through inhibiting Drp1-mediated mitochondrial fission. *Neurotoxicology*. 2021 F
2. PubMed ID: 32758603, Yang R, Li Y, Mehmood S, Yan C, Huang Y, Cai J, Ji J, Pan W, Zhang W, Chen Y. Polysaccharides from *Armillariella tabescens* mycelia ameliorate renal damage in type 2 diabetic mice. *Int J Biol Macromol*. 2020 Nov 1;162:1682-1691. doi:10.1016/j.ijbiomac.2020.08.006. Epub
3. PubMed ID: 32952148, Fan X, Ma W, Zhang Y, Zhang L. P2X7 Receptor (P2X7R) of Microglia Mediates Neuroinflammation by Regulating (NOD)-Like Receptor Protein 3 (NLRP3) Inflammasome-Dependent Inflammation After Spinal Cord Injury. *Med Sci Monit*. 2020 Sep 21;26:e925491. doi:10.12659/MS

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