

Anti-CASP1 Polyclonal Antibody

Cat: AC50755

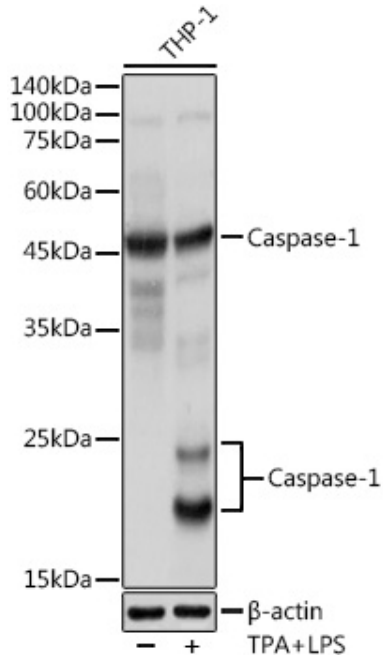
Summary:

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|--|---|
| 【Product name】 : Anti-CASP1 antibody | 【Source】 : Rabbit |
| 【Isotype】 : IgG | 【Species reactivity】 : Human Mouse Rat |
| 【Swiss Prot】 : P29466 | 【Gene ID】 : 834 |
| 【Calculated】 : MW:10/29/35/42/45kDa | 【Observed】 : MW:40kDa |
| 【Purification】 : Affinity purification | |
| 【Tested applications】 : WB IHC IF IP | |
| 【Recommended dilution】 : WB 1:500-2000. IHC 1:50-200.IF 1:50-200.IP 1:50-100. | |
| 【WB Positive sample】 : THP-1 | |
| 【IHC Positive sample】 : Human colon | |
| 【Subcellular location】 : Cytoplasm | |
| 【Immunogen】 : Recombinant protein of human CASP1 | |
| 【Storage】 : Store at -20° C. Avoid freeze / thaw cycles. | |

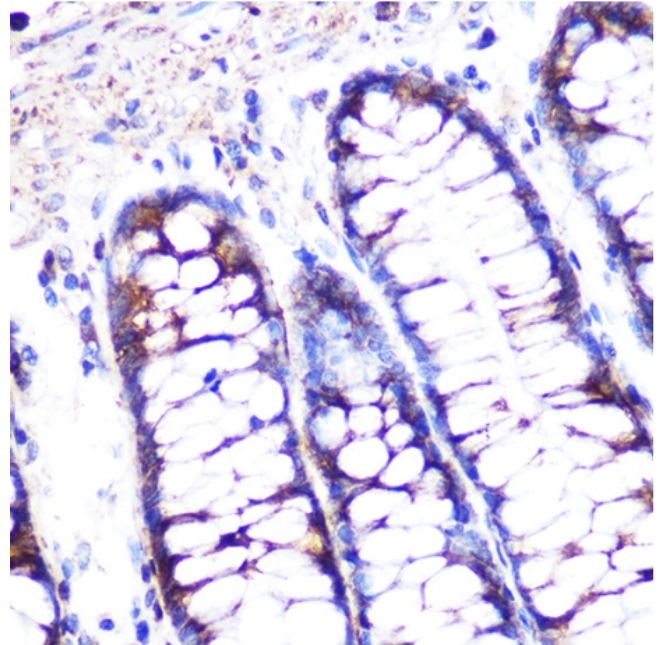
Background:

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing results in transcript variants encoding distinct isoforms.

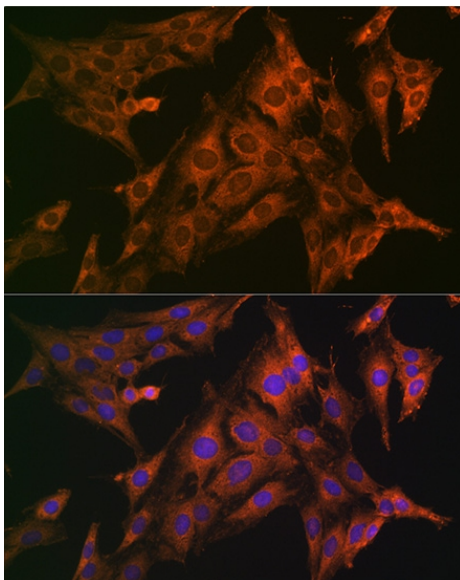
Verified picture



Western blot analysis with CASP1 antibody diluted at 1:1000; Lane: THP-1



Immunohistochemistry of paraffin-embedded Human colon with CASP1 antibody diluted at 1:100



Immunofluorescence analysis of C6 cells using CASP1 antibody at dilution of 1:100 (40x lens).