

## CASP1 RABBIT PAB

**Cat.#:** S216257

**Product Name:** Anti-CASP1 Rabbit Polyclonal Antibody

**Synonyms:** ICE; P45; IL1BC

**UNIPROT ID:** P29466 (Gene Accession - BC062327 )

**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.

**Immunogen:** Fusion protein of human CASP1

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 25-50;WB: 500-2000;ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

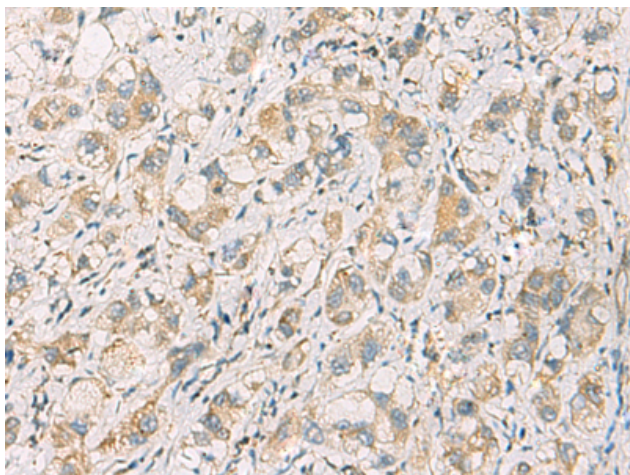
**Purification:** Antigen affinity purification

**Species Reactivity:** Human

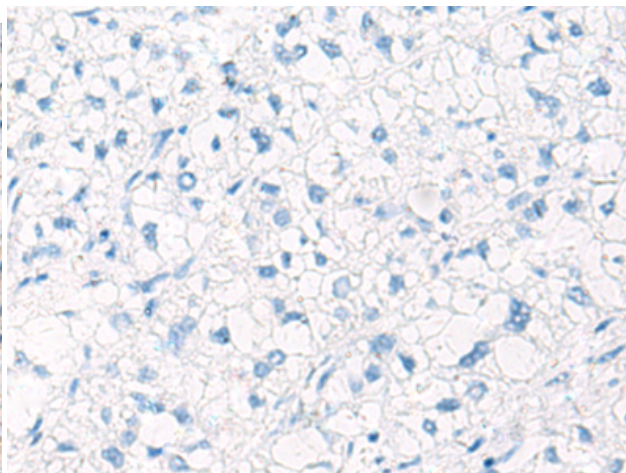
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Cancer,Cardiovascular,Metabolism

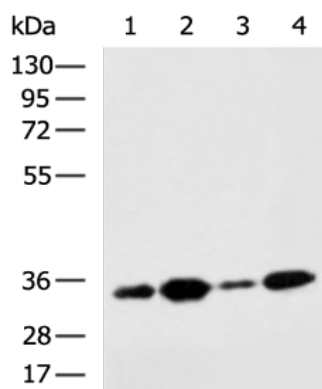
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin embedded Human liver cancer tissue using 216257 (CASPI Antibody) at a dilution of 1/40 (Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with the fusion protein and then with 216257 (Anti-CASPI Antibody) at dilution 1/40.



Gel: 8% SDS-PAGE, Lysate: 40  $\mu$ g;  
 Lane 1-4: MCF-7 cell, 293T cell, Hela cell, Jurkat cell lysates;  
 Primary antibody: 216257 (CASPI Antibody) at dilution 1/500;  
 Secondary antibody: HRP-conjugated Goat anti rabbit IgG at 1/5000 dilution;  
 Exposure time: 1 minute