

Datasheet for ABIN6655699

anti-Caspase 1 antibody (C-Term)



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2 Images

Overview

Quantity:	100 µg
Target:	Caspase 1 (CASP1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Caspase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	Caspase-1 Antibody
Immunogen:	Caspase-1 Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to amino acids near the c-terminus of the immunogen, human Caspase-1.
Clone:	14F468
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Anti-Caspase-1 from human and mouse based on 100 % homology with the immunizing sequence.
Purification:	Anti-Caspase-1 Antibody was purified by Protein G chromatography.

Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	Caspase-1 (CASP1 Products)
Background:	Synonyms: IL1BC, IL1BCE, Caspase-1, CASP-1, 3.4.22.36, Interleukin-1 beta convertase, IL-1BC, Interleukin-1 beta-converting enzyme, ICE, IL-1 beta-converting enzyme, p45, Caspase-1 subunit p20, Caspase-1 subunit p10 Background: Anti-Caspase-1 detects human Caspase. Caspase proteins are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspase proteins is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into tetramer to form the active enzyme. Caspase-1 (ICE, IL-1b converting enzyme) is similar to the cell death gene CED-3 of <i>Caenorhabditis elegans</i> and regulates multiple proinflammatory cytokines, including interleukin-1b and interferon-gamma-inducing factor. Anti-Caspase-1 antibody is ideal for investigators involved in apoptosis research. Gene Name: CASP1
Gene ID:	834
NCBI Accession:	NP_001214
UniProt:	P29466
Pathways:	Apoptosis , Interferon-gamma Pathway , Positive Regulation of Endopeptidase Activity , Inflammasome

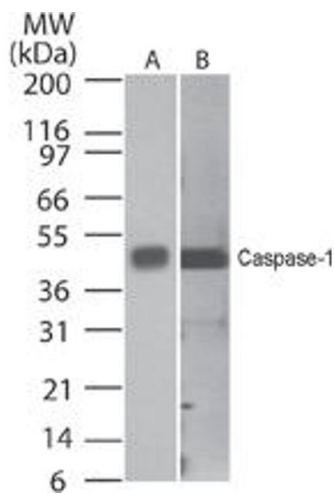
Application Details

Application Notes:	Immunohistochemistry_Dilution: 1:100 - 1:500 Western_Blot_Dilution: 0.5-2 µg/mL
Comment:	Anti-Caspase-1 antibody has been tested in IHC-F, IHC-P, IF, and WB. Expect a band approximately 46kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

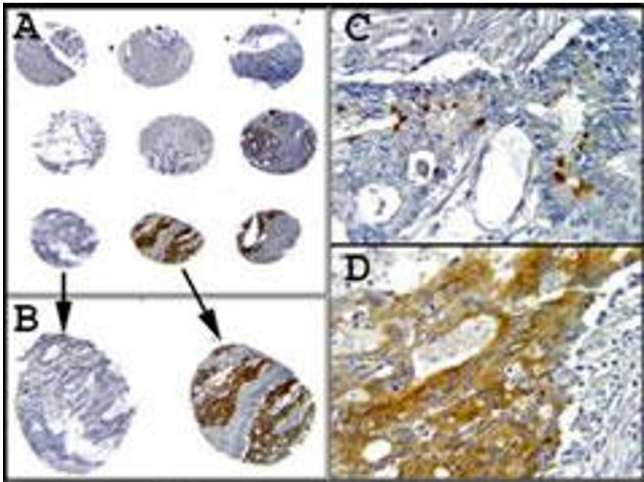
Format:	Liquid
Buffer:	Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 ,0.05 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Caspase-1 Western Blot. Western Blot of Mouse Anti-Caspase-1 antibody. Lane A: Human HeLa. Lane B: Mouse NIH3T3 lysate. Load: 30 µg per lane. Primary antibody: Caspase-1 antibody at 0.5 µg/ml and 2 µg/ml respectively for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 45.2/45 kDa for Caspase-1. Other band(s): none.



Immunohistochemistry

Image 2. Caspase-1 Immunohistochemistry. Immunohistochemistry of mouse Anti-Caspase-1 antibody. Tissue: human colon cancer. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Caspase-1 at 5 µg/ml for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Caspase-1 is a cytoplasmic protein. Staining: Caspase-1 has a DAB chromogen and Hematoxylin counterstain. A). Only rare staining is observed. B). Abundant staining is observed. A and B). Two of these sections are shown at higher magnifications. C). Differential staining was observed.