



Rabbit Anti-Human CASP1 polyclonal antibody (CABT-L1706)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody may react with (Predicted by homology) : Bovine, Dog, Mouse, Rat
Target	CASP1
Immunogen	Synthetic peptide derived from internal region of human caspase-1 protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunoaffinity purified
Conjugate	Unconjugated
Applications	IHC-P
Molecular Weight	45 kDa (Pro) , and 20 kDa (Active)
Cellular Localization	Cytoplasm
Positive Control	Placenta
Format	Liquid
Buffer	PBS, 1% BSA, pH 7.6
Preservative	< 0.1% Sodium Azide
Storage	2-8°C. Do not freeze. The user must validate any other storage conditions. When properly

stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

BACKGROUND

Introduction

Caspase-1/ICE (Interleukin-1Beta Converting Enzyme) is expressed as a proenzyme of 45kDa in many tissues. Upon stimulus, it gets activated by proteolytic cleavage. Active caspase-1 is a tetramer of two subunits p10 and p20 in 2; 2 proportion. Caspase-1 (cystein aspartic-specific protease 1) cleaves its substrates after an aspartate residue. It cleaves Interleukin Beta into its active form which further exerts its proinflammatory effects. Overexpression of caspase-1 can induce apoptosis in fibroblast, which can be inhibited by overexpression of Crm A, a protein from pox virus.

Keywords

CASP1;caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
;caspase 1, apoptosis related cysteine protease (interleukin 1, beta, convertase) ,
IL1BC;caspase-1;caspase 1;ICE;Caspase 1

GENE INFORMATION

Entrez Gene ID

[834](#)

UniProt ID

[P29466](#)
