



Rabbit Anti-CASP1 monoclonal antibody, clone TV51-18 (CABT-L657)

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

PRODUCT INFORMATION

Target	Caspase-1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TV51-18
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC, FC
Molecular Weight	45 kDa
Cellular Localization	Cytoplasm.
Positive Control	THP-1, Jurkat, human lung cancer tissue, mouse liver tissue, human lung tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

Caspase-1, originally designated ICE (for IL-1 converting enzyme), is a member of the group of caspases with large prodomains. Caspase-1 promotes maturation of interleukin IL-1 β and interleukin18 (IL-18) by proteolytic cleavage of precursor forms into biologically active pro-inflammatory cytokines. Active caspase-1, a (p20/p10)₂ tetramer, is necessary and sufficient for cleavage of precursor IL-1 as well as for induction of apoptosis in some cell lines. The highly conserved family of caspases mediate many of the morphological and biochemical features of apoptosis, including structural dismantling of cell bodies and nuclei, fragmentation of genomic DNA, destruction of regulatory proteins and propagation of other pro-apoptotic molecules. The human Caspase-1 gene maps to chromosome 2q14 and encodes a cytoplasmic protein expressed in liver, heart, skeletal muscle kidney and testis. Caspase-1 has been implicated in inflammation, septic shock, and other situations such as wound healing and the growth of certain leukemias.

Keywords

CASP-1;CASP1;CASP1_HUMAN;Caspase 1;Caspase-1 subunit p10;ICE;IL-1 beta-converting enzyme;IL-1BC;IL1 beta converting enzyme;IL1B convertase;Interleukin 1 beta convertase;Interleukin 1B converting enzyme;Interleukin-1 beta convertase;Interleukin-1 beta-converting enzyme;p45 antibody

GENE INFORMATION

Entrez Gene ID

[3687](#)
