



HiResNb™ Alpaca Anti-Human CASP3 Monoclonal Antibody, clone A5038 (DMAB- CS24765)

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

PRODUCT INFORMATION

Specificity	Human CASP3/Caspase-3
Target	Human CASP3
Isotype	VHH
Source/Host	Alpaca
Species Reactivity	Human
Clone	A5038
Purification	Affinity purified
Conjugate	Unconjugated
Applications	ELISA
Format	Liquid
Size	100 µg, 1 mg
Buffer	10mM PBS (pH 7.5)
Preservative	None
Storage	Store at -20°C (Avoid freeze / thaw cycles).

BACKGROUND

Introduction

Caspase 3 is a member of the peptidase family C14. This cytoplasmic caspase functions as a heterotetramer and has two isoforms (one acts as a dominant negative inhibitor). The pro-form of this caspase is approximately 32 kD. Caspase 3 is involved in the caspase activation cascade responsible for apoptosis execution. Caspase 3 is inhibited by c-IAP1, c-IAP2, XIAP, survivin, and Livin and activated by Caspase 6, -8, and -10, granzyme B, Apaf-1 by cleavage into large p17 and small p12 subunits. Caspase 3 has been shown to cleave PARP, huntingtin, androgen receptor, atrophin-1, DNA- PKcs, D4-GDI, hnRNPs C1/C2, U1snRNP, PKC delta, ATM, fodrin, gelsolin, ICAD, RIP, X-IAP, STAT1, topoisomerase I, vimentin, Rb, lamin B, mdm2, and β -catenin.

Keywords

CASP3; Caspase-3; Caspase 3 preproprotein; cpp32; Apopain; Yama; PARP cleavage protease; SREBP cleavage activity 1