



Rabbit Anti-CASP2 monoclonal antibody, clone TS55-12 (DCABH-8568)

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

PRODUCT INFORMATION

Target	Caspase-2
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TS55-12
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, FC
Molecular Weight	48/30/12 kDa
Cellular Localization	Cytoplasm, Nucleus, Membrane.
Positive Control	A549, Hela, human lung cancer tissue, mouse kidney tissue, human kidney 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-2 (Nedd2, ICH-1) is an aspartate-specific cysteine protease that is activated in response to various apoptotic stimuli. Caspase-2 is unique among the caspases in that it has features of both upstream caspases (long prodomain) and downstream caspases (DEXD substrate specificity). Caspase-2 is highly expressed in the brain during development, and is expressed at low levels in adult tissue. Specifically, caspase-2 localizes to the mitochondria, the Golgi, the cytoplasm, and the nucleus. Caspase-2 exists as two isoforms, caspase-2L and caspase-2S, which are produced by alternative splicing and differ in their N and C-termini. Caspase-2L acts as a positive regulator of apoptosis, whereas caspase-2S functions as a negative regulator of apoptosis. Following apoptotic stimuli, the caspase-2L precursor undergoes cleavage at Asp-153 to produce a fragment (p30). The p30 fragment undergoes further cleavage to generate a fragment containing amino acids 153-308 (p18) and a fragment containing amino acids 317-435 (p13 or p14). As apoptosis progresses, the p13 (p14) fragment can undergo further processing to yield a fragment containing amino acids 331-435 (p12).

Keywords

CASP 2;CASP-2;Casp2;CASP2_HUMAN;Caspase 2;Caspase 2 apoptosis related cysteine peptidase;Caspase-2 subunit p12;Caspase2;ICH 1;ICH 1 protease;ICH 1L;ICH1;ICH1 protease;ICH1L;NEDD-2;NEDD2;Neural precursor cell expressed developmentally down-regulated protein 2;PPP1R57;Protease ICH-1;Protein phosphatase 1 regulatory subunit 57 antibody

GENE INFORMATION

Entrez Gene ID

[3791](#)
