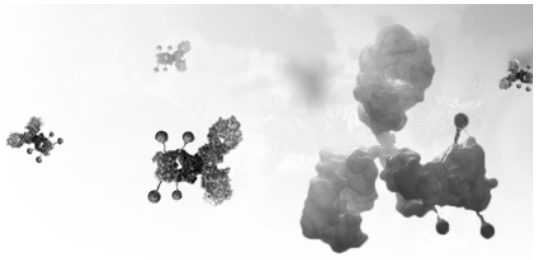

Anti-CASP2 (N-terminal) polyclonal antibody (CPBT-66277RH)

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

PRODUCT INFORMATION

Product Overview	This product recognises human caspase-2, a 53 kDa member of the cysteine-aspartic acid protease (caspase) family. Caspase-2 is required for the permeabilisation of the mitochondria and the resulting amplification of caspase activity, in response to cytotoxic stress. Cytotoxic stress induced proteolytic cleavage of the caspase-2 proenzyme forms an active caspase which cleaves other caspases in a cascade. This leads to the release of cytochrome c and Smac from mitochondria and the translocation of Bax from the cytoplasm to the mitochondria, leading to apoptosis. In adults, caspase-2 is expressed in the placenta, lung, kidney, pancreas and at lower levels in the heart, brain, liver and skeletal muscle.
Specificity	CASP2
Immunogen	Synthetic peptide corresponding to 6 amino acid sequence from the amino-terminus of human Caspase-2.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Conjugate	Unconjugated
Applications	IHC-P; WB
Format	Purified IgG - liquid
Size	50 µg
Preservative	0.02% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid

45-1 Ramsey Road, Shirley, NY 11967, USA
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repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CASP2 caspase 2, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP2
Synonyms	CASP2; caspase 2, apoptosis-related cysteine peptidase; ICH1; NEDD2; CASP-2; NEDD-2; PPP1R57; caspase-2; protease ICH-1; protein phosphatase 1, regulatory subunit 57; neural precursor cell expressed developmentally down-regulated protein 2;
Entrez Gene ID	835
Protein Refseq	NP_001215
UniProt ID	P42575
Chromosome Location	7q34-q35
Pathway	Apoptosis; Apoptosis Modulation and Signaling; Apoptosis Modulation by HSP70; Caspase cascade in apoptosis; Cell death signalling via NRAGE, NRIF and NADE; HIV-1 Nef: Negative effector of Fas and TNF-alpha; Immune System; Innate Immune System;
Function	cysteine-type endopeptidase activity; cysteine-type endopeptidase activity involved in apoptotic process; enzyme binding; protein binding; protein domain specific binding;

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