Datasheet for ABIN3044426

anti-Caspase 10 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	Caspase 10 (CASP10)
Binding Specificity:	AA 220-236, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Caspase-10(CASP10) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human CASP10(220-236aa VKTFLEALPRAAVYRMN).
Sequence:	VKTFLEALPR AAVYRMN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Caspase-10(CASP10) detection. Tested with WB, IHC-P in Human. Gene Name: caspase 10, apoptosis-related cysteine peptidase Protein Name: Caspase-10(CASP-10)
Purification:	Immunogen affinity purified.

Target Details

Target:	Caspase 10 (CASP10)
Alternative Name:	CASP10 (CASP10 Products)
Background:	Caspase-10 is an enzyme that, in humans, is encoded by the CASP10 gene. The Caspase 10 gene contains 11 exons and spans about 48 kb. This gene is mapped to 2q33.1. It is transcribed in the centromere-to-telomere direction.This gene encodes a protein that is a member of the cysteine-aspartic acid protease(caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes that undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with apoptosis defects seen in type II autoimmune lymphoproliferative syndrome. Three alternatively spliced transcript variants encoding different isoforms have been described for this gene. Synonyms: ALPS 2 antibody|ALPS2 antibody|Apoptosis related cysteine peptidase antibody|Apoptotic protease Mch 4 antibody|Apoptotic protease Mch-4 antibody|CASP 10 antibody|CASP-10 antibody|CASP10 antibody|CASP10 protein antibody|CASPA_HUMAN antibody|Caspase 10 apoptosis related cysteine peptidase antibody|Caspase 10 apoptosis related cysteine protease antibody|Caspase-10 subunit p12 antibody|Caspase10 antibody|FADD Like Ice 2 antibody|FADD like ICE2 antibody|Fas Associated Death Domain Protein antibody|FAS associated death domain protein interleukin 1B converting enzyme 2 antibody|FAS-associated death domain protein interleukin-1B-converting enzyme 2 antibody|FLICE 2 antibody|FLICE2 antibody|ICE Like Apoptotic Protease 4 antibody|ICE-like apoptotic protease 4 antibody|Interleukin 1B Converting Enzyme 2 antibody|MCH 4 antibody|MCH4 antibody
UniProt:	Q92851
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be

Application Details

	fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

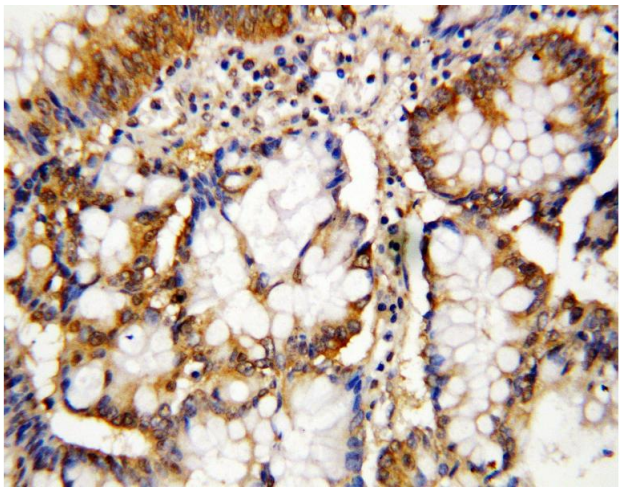
Publications

Product cited in:	Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) (PubMed). Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) (

Publications

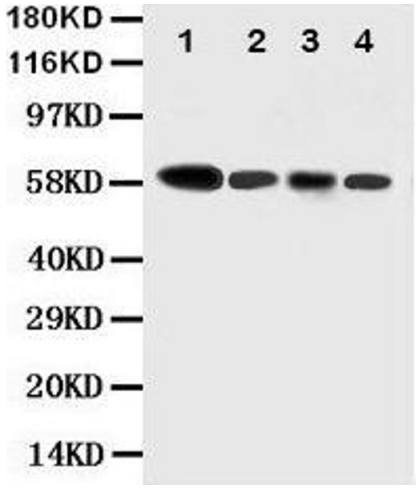
PubMed).

Images



Immunohistochemistry

Image 1. Anti-Caspase-10 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



Western Blotting

Image 2. Anti-Caspase-10 antibody, Western blotting Lane 1: COLO320 Cell Lysate Lane 2: HELA Cell Lysate Lane 3: SW620 Cell Lysate Lane 4: RAJI Cell Lysate