



CASP10, caspase 10 polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-10300
Animal ID	RC40104
Host	Rabbit
Reactivity	Human
Format	Serum
Accession number	NM_032977
Amount	100µl

Alternative Name(s):

ALPS2, FLICE2, FADD-like ICE2, apoptotic protease MCH-4, ICE-like apoptotic protease 4, interleukin-1B-converting enzyme 2, Fas-associated death domain protein

Caspase 10 (CASP10) 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 which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. Caspase 10 cleaves and activates caspases 3 and 7, and itself is being processed by caspase 8. Mutations in caspase 10 are associated with apoptosis defects seen in type II autoimmune lymphoproliferative syndrome II, somatic gastric cancer and somatic non-Hodgkin lymphoma.

Buffers

Rabbit serum

Immunogen

N/A

Application

Tested by peptide-specific ELISA (1:1,000).

Storage

Store at -20°C. Avoid repeated freeze-thaw cycles.

References:

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2. Sprick MR, Rieser E, Stahl H, Grosse-Wilde A, Weigand MA, Walczak H: Caspase-10 is recruited to and activated at the native TRAIL and CD95 death-inducing signalling complexes in a FADD-dependent manner but can not functionally substitute caspase-8. *EMBO J.* 21(17): 4520-4530 (2002).
3. Shin MS, Kim HS, Lee SH, Lee JW, Song YH, Kim YS, Park WS, Kim SY, Lee SN, Park JY, Lee JH, Xiao W, Jo KH, Wang YP, Lee KY, Park YG, Kim SH, Lee JY, Yoo NJ: Alterations of Fas-pathway genes associated with nodal metastasis in non-small cell lung cancer. *Oncogene* 21(26): 4129-4136 (2002).
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5. Wang J, Zheng L, Lobito A, Chan FK, Dale J, Sneller M, Yao X, Puck JM, Straus SE, Lenardo MJ: Inherited human Caspase 10 mutations underlie defective lymphocyte and dendritic cell apoptosis in autoimmune lymphoproliferative syndrome type II. *Cell.* 1999 Jul 9;98(1):47-58. PMID: 10412980 [PubMed - indexed for MEDLINE] 6: Ng PW, Porter AG, Janicke RU. Related Articles, Links Molecular cloning and characterization of two novel pro-apoptotic isoforms of caspase-10. *J Biol Chem.* 1999 Apr 9;274(15):10301-8. PMID: 10187817 [PubMed - indexed for MEDLINE]