

## ARG54400 anti-Caspase 10 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Caspase 10   |
| Tested Reactivity   | Hu   |
| Tested Application  | WB   |
| Specificity         | This antibody recognizes full-length human caspase-10 (59kDa). Since the sequences at C-termini of FLICE2 and Mch4 are different, this antibody recognizes only the FLICE2 form of caspase-10. |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | Caspase 10   |
| Species             | Human  |
| Immunogen           | Peptide corresponding to aa 505-521 at C-terminus of human FLICE2 (accession no. AAD28402).  |
| Conjugation         | Un-conjugated  |
| Alternate Names     | Caspase-10; EC 3.4.22.63; ICE-like apoptotic protease 4; Apoptotic protease Mch-4; FAS-associated death domain protein interleukin-1B-converting enzyme 2; FLICE2; CASP-10; ALPS2; MCH4        |

### Application Instructions

|                   |  |                 |
|-------------------|--|-----------------|
| Application table | Application  | Dilution        |
|                   | WB   | Assay-dependent |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |
| Positive Control  | HeLa, Jurkat, A431 and K562  |                 |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Immunoaffinity chroma-tography   |
| Buffer              | PBS (pH 7.4) and 0.02% Sodium azide  |
| Preservative        | 0.02% Sodium azide   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

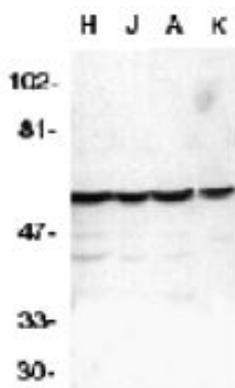
## Bioinformation

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|                |   |
|----------------|---|
| Database links | <a href="#">GeneID: 843 Human</a><br><a href="#">Swiss-port # Q92851 Human</a>  |
| Gene Symbol    | CASP10  |
| Gene Full Name | caspase 10, apoptosis-related cysteine peptidase  |
| Background     | A novel ICE/CED-3 protease was identified recently, designated FLICE2 and Mch4, and renamed as caspase-10. Caspase-10 has two death effector domains (DEDs) that bind to the DED in the adapter molecule FADD and recruits both TNFR1 and CD95 to form complexes with these receptors. Caspase-10 is, therefore, involved in CD95- and TNFR1-induced apoptosis. Caspase-10 cleaves and activates caspase-3, -4, -6, -7, -8, and -9, thereby causing proteolytic cleavage of many key proteins, such as PARP. Cleavage of PARP occurs in many different systems during apoptosis and is the hallmark of programmed cell death. Caspase-10 is expressed in many tissues and cell lines. |
| Function       | Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates caspase-3, -4, -6, -7, -8, and -9. Hydrolyzes the small- molecule substrates, Tyr-Val-Ala-Asp- -AMC and Asp-Glu-Val-Asp- -AMC. Isoform C is proteolytically inactive. [UniProt]   |
| Research Area  | Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody  |
| Calculated Mw  | 59 kDa  |
| PTM            | Cleavage by granzyme B and autocatalytic activity generate the two active subunits.   |

## Images

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ARG54400 anti-Caspase 10 antibody WB image

Western blot: H:HeLa; J:Jurkat; A:A431; K:K562 stained with ARG54400 anti-Caspase 10 antibody at 1 µg/ml dilution.