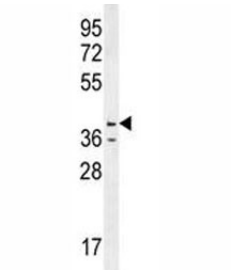
# Caspase-12 Antibody (F41865)

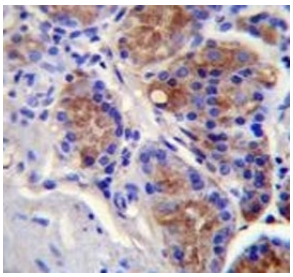
| Catalog No. | Formulation | Size |
|---|---|---|
| F41865-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F41865-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

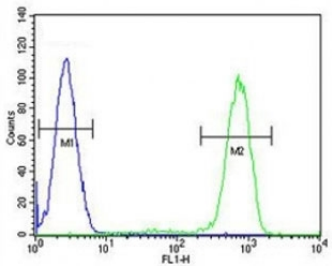
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity |
| **UniProt** | Q6UXS9 |
| **Applications** | Western blot: 1:1000<br>IHC (Paraffin): 1:10-1:50<br>Flow Cytometry: 1:10-1:50<br>Immunofluorescence: 1:10-1:50 |
| **Limitations** | This Caspase-12 antibody is available for research use only. |



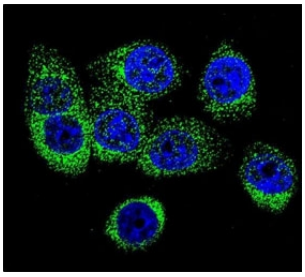

Caspase-12 antibody western blot analysis in HL-60 lysate. Predicted molecular weight ~50/36~42kDa (pro/active)



Caspase-12 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue.




Caspase-12 antibody flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Confocal immunofluorescent analysis of Caspase-12 antibody with 293 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

## Description

Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for this gene.

## Application Notes

Titration of the Caspase-12 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 165-193 from the human protein was used as the immunogen for this Caspase-12 antibody.

## Storage

Aliquot the Caspase-12 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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