

## Product datasheet for **AP50732PU-N**

### Caspase 12 (CASP12) (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western blot:</b> 1/100 - 1/500. <b>Immunohistochemistry on paraffin sections:</b> 1/10 - 1/50. <b>Flow Cytometry:</b> 1/10 - 1/50. <b>Immunofluorescence:</b> 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 172-201 amino acids from the Central region of human CASP12
Specificity:	This antibody reacts to CASP12.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	38907 Da
Gene Name:	caspase 12 (gene/pseudogene)
Database Link:	<a href="#">Entrez Gene 100506742 Human Q6UXS9</a>



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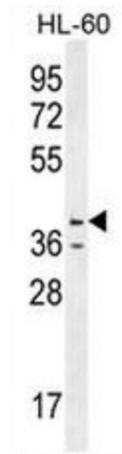
**Background:**

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.

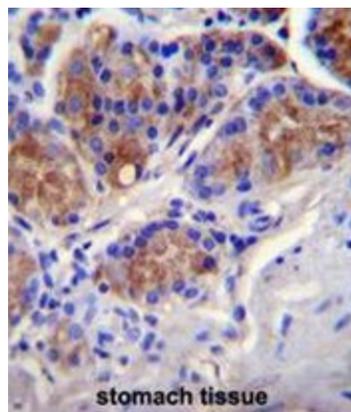
**Synonyms:**

CASP-12, CASP12

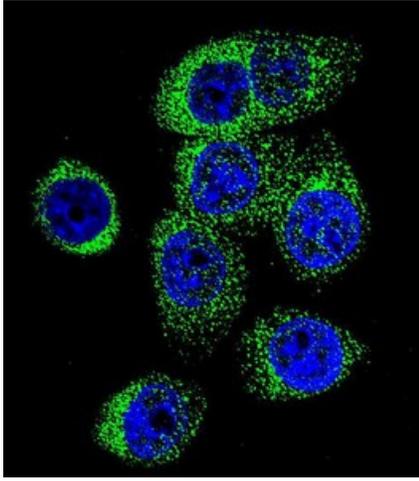
**Product images:**



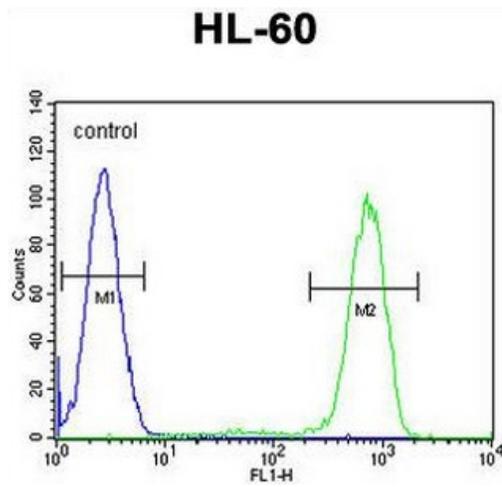
CASP12 Antibody (Center) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the CASP12 antibody detected the CASP12 protein (arrow).



CASP12 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CASP12 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of CASP12 Antibody (Center) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



CASP12 Antibody (Center) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.