



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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**Caspase-4 Precursor (IN). Rabbit Antigen Immunoaffinity Purified Polyclonal**  
ICH-2, ICE(rel)-II, Mih1 (IN)

**BACKGROUND**

Caspases are a family of cysteine proteases that can be divided into the apoptotic and inflammatory caspase subfamilies. Unlike the apoptotic caspases, members of the inflammatory subfamily are generally not involved in cell death but are associated with the immune response to microbial pathogens (reviewed in 1). Members of this subfamily include caspase-1, -4, -5, and -12. Activation of these caspases results in the cleavage and activation of proinflammatory cytokines such as IL-1&#946; and IL-18 (2,3). Caspase-4 was initially identified as a homologous protein to Caspase-1 and the *C. elegans* Ced-3 which could induce apoptosis in transfected cells (4). More recent studies have shown that it can be activated by ER stress and has been suggested to be involved in multiple neuronal pathologies such as Alzheimer's disease (5).

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1784P

**SIZE**

100 µg

**FORM**

Affinity Purified

**HOST/CLONE**

Rabbit

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.02% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

Western Blot, Immunohistochemistry

**SPECIES REACTIVITY**

Human

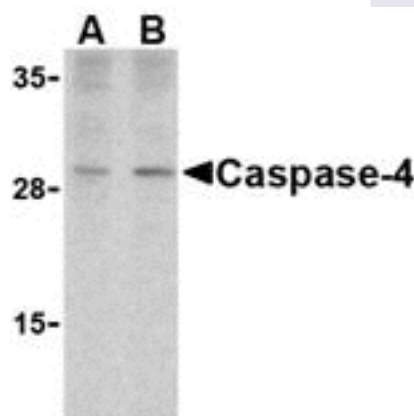
**ACCESSION NUMBER**

Human AAA86890

**IMMUNOGEN**

Rabbit polyclonal Caspase-4 antibody was raised against a 15 amino acid peptide from near the center of human Caspase-4.

Western blot analysis of caspase-4 in human spleen cells with caspase-4 antibody at (A) 1 and (B) 2 µg/ml



**POSITIVE CONTROL/TISSUE EXPRESSION**

Widely expressed, with highest levels in spleen and lung. Moderate expression in heart and liver, low expression in skeletal muscle, kidney and testis. Not found in the brain.

**COMMENTS**

Casp-4 (IN) antibody can be used for the detection of Caspase-4 by Western blot at 2  $\mu$ g/ml. Depending on cell lines or tissues used, other cleavage products may be observed. Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Antigen Immunoaffinity Purification

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

- 1) Martinon F and Tschopp J. Inflammatory caspases: linking an intracellular innate immune system to autoinflammatory diseases Cell 2004; 117:561-74.
- 2) Kuida K, Lippke JA, Ku G, et al. Altered cytokine export and apoptosis in mice deficient in interleukin-1 converting enzyme. Science 1995; 267:2000-3.
- 3) Gracie JA, Robertson SE, and McInnes IB. Interleukin-18. J. Leukoc. Biol. 2003; 73:213-224.
- 4) Kamens J, Paskind M, Hugunin M, et al. Identification and characterization of ICH-2, a novel member of the interleukin-1 converting enzyme family of cysteine proteases. J. Biol. Chem. 1995; 270:15250-6.

**PRODUCT SPECIFIC REFERENCES**