

## Caspase-4 polyclonal antibody

Catalog: BS61766

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Caspase-4 (TX/ICH-2/ICERelII) is a member of the caspase family of proteases that play a key role in the execution of apoptosis and activation of inflammatory cytokines. Expression of caspase-4 has been observed in most tissues except brain, with highest levels in placenta, lung, spleen, and peripheral blood lymphocytes (PBL). Caspase-4 was originally found to contribute to Fas-mediated apoptosis. Several caspases (including caspase-4, caspase-5, and mouse caspase-11 and -12) are most closely related to caspase-1 and are capable of inducing apoptosis when over-expressed but are better characterized in the proteolytic activation of inflammatory cytokines. Caspase-4 associates with TRAF6 and is involved in the LPS inducible production of inflammatory cytokines IL-8 and MIP1 in THP-1 cells. While caspase-4 and mouse caspase-12 localize to the endoplasmic reticulum (ER) and may be activated by drugs that induce ER-stress, at least one study suggests that caspase-4 and caspase-12 are not essential for the ER-stress induced apoptosis.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

### Molecular Weight:

~ 50 kDa

### Swiss-Prot:

P49662/P51878

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

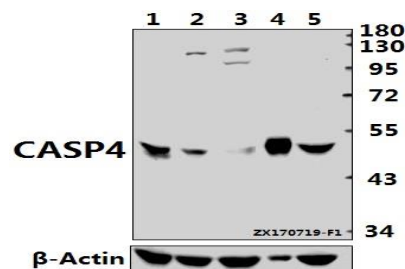
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Caspase-4 polyclonal antibody detects endogenous levels of Caspase-4 protein.

### DATA:



Western blot (WB) analysis of Caspase-4 polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate(40ug)

Lane2:HepG2 whole cell lysate(40ug)

Lane3:U-87MG whole cell lysate(40ug)

Lane4:AML-12 whole cell lysate(10ug)

Lane5:PC12 whole cell lysate(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151