

## Caspase 4 Rabbit monoclonal antibody

Catalog: MB66323

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Caspase-4 (TX/ICH-2/ICereII) 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:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

### Molecular Weight:

~ 45 kDa

### Swiss-Prot:

P49662

### Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

### Applications:

WB (1/500 - 1/1000), IP (1/10 - 1/50)

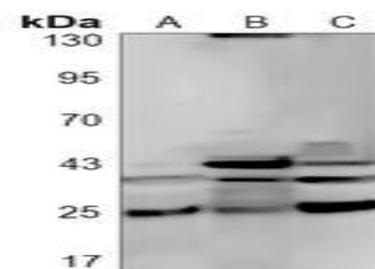
### Storage&Stability:

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

### Specificity:

Recognizes endogenous levels of Caspase 4 protein.

### DATA:



Western blot analysis of Caspase 4 expression in C6 (A), NIH3T3 (B), HeLa (C) whole cell lysates.

### Note:

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

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