



## Product Information Sheet

### Polyclonal Anti-Caspase 2 (Magnetic Bead Conjugate)

**Catalogue No.** PA1113-M

**Immunogen**

A synthetic peptide mapping at the C-terminal of human Caspase 2, identical to the related rat sequence.

**Lot No.** 08J01

**Ig type:** rabbit IgG1

**Purification**

Immunogen affinity purified

**Size:** 100µg/Vial

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Specificity**

Human, rat, mouse.

No cross reactivity with other proteins.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation(IP)*

**Description:**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

#### BACKGROUND

Caspase-2, which is involved in stress-induced apoptosis, is recruited into a large protein complex, the molecular composition of which remains elusive. activation of caspase-2 occurs in a complex that contains the death domain-containing protein PIDD, whose expression is induced by p53, and the adaptor protein RAIDD. Increased PIDD expression resulted in spontaneous activation of caspase-2 and sensitization to apoptosis by genotoxic stimuli. Caspase-2 acts both as a positive and negative cell death effector, depending upon cell lineage and stage of development.

#### REFERENCE

1. Bergeron, L.; Perez, G. I.; Macdonald, G.; Shi, L.; Sun, Y.; Jurisicova, A.; Varmuza, S.; Latham, K. E.; Flaws, J. A.; Salter, J. C. M.; Hara, H.; Moskowitz, M. A.; Li, E.; Greenberg, A.; Tilly, J. L.; Yuan, J. : Defects in regulation of apoptosis in caspase-2-deficient mice. *Genes Dev.* 12: 1304-1314, 1998.
2. Tinel, A.; Tschopp, J. : The PIDDosome, a protein complex implicated in activation of caspase-2 in response to genotoxic stress. *Science* 304: 843-846, 2004.

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