
anti-Caspase2

Cat #: HM1058
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Caspase-2, alternatively known as Nedd2/ICH-1, is a cysteine protease of the caspase family that has been demonstrated to play a role in the apoptotic pathway. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. Following various apoptotic stimuli, the 51 kDa precursor of caspase-2 undergoes cleavage. Caspase-2 is processed to yield three active subunits p18, p14, p12. Additionally, caspase-2 has two messenger RNAs generated by alternative splicing, which encode caspase-2L and caspase-2S. Although caspase-2L induces apoptosis, caspase-2S also has the ability to antagonize cell death. Caspase-2 is highly expressed in the brain during development and, similar to many caspases, is expressed at low levels in adult tissues.

SPECIFICITY

This antibody specifically recognizes Caspase 2 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A peptide at the carboxy terminus of human caspase-2.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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