

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



Caspase 2 (K152) Peptide

Cat No.: BS2995P

Background

Caspase-2 (Nedd2, ICH-1) is an aspartate-specific cysteine protease that is activated in response to various apoptotic stimuli. Caspase-2 is unique among the caspases in that it has features of both upstream caspases (long prodomain) and downstream caspases (DEXD substrate specificity). Caspase-2 is highly expressed in the brain during development and is expressed at low levels in adult tissue. Specifically, caspase-2 localizes to the mitochondria, the Golgi, the cytoplasm and the nucleus. Caspase-2 exists as two isoforms, caspase-2L and caspase-2S, which are produced by alternative splicing and differ in their N- and C-termini. Caspase-2L acts as a positive regulator of apoptosis, whereas caspase-2S functions as a negative regulator of apoptosis. Following apoptotic stimuli, the caspase-2L precursor undergoes cleavage at Asp 153 to produce a fragment (p30). The p30 fragment undergoes further cleavage to generate a fragment containing amino acids 153-308 (p18) and a fragment containing amino acids 317-435 (p13 or p14). As apoptosis progresses, the p13 (p14) fragment can undergo further processing to yield a fragment containing amino acids 331-435 (p12).

Swiss-Prot

P42575

Applications

Blocking

Specificity

This peptide can be used with studies using BS2995 Caspase 2 (K152) pAb.

Purification & Purity

Synthetic peptide Caspase 2 (K152). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

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

Research Use

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