

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Caspase 2 (K136) pAb

Cat No.: BS2995

Host: Rabbit

Reactivity: Human

#### 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).

#### PRODUCT

1 mg/ml in Phosphate buffered saline (PBS) with 0.05

#### Molecular Weight

~51 kDa

#### PURIFICATION & PURITY

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

#### APPLICATIONS

WB: 1:500 ~ 1:1000

IHC: 1:50 ~ 1:200 (Recommended Dilutions)

#### STORAGE & STABILITY

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

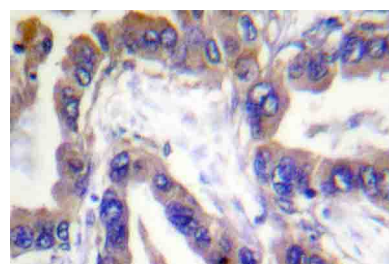
#### SPECIFICITY

Caspase 2 (K136) pAb detects endogenous levels of Caspase 2 protein.

#### DATA



**Western blot (WB)** analysis of Caspase 2 (K136) pAb in extracts from HuvEc cells treated with Adriamycin 0.5uM 4h.



**Immunohistochemistry (IHC)** analyzes of Caspase 2 (K136) pAb in paraffin-embedded human lung carcinoma tissue .

#### RESEARCH USE

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

Bioworld Technology, Inc.

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