**Product:** Anti-ICAD (mouse, C-terminus), Polyclonal

**Cat. No:** PC-027 (100 µg)

**Background:**
Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. These death signals finally cause the degradation of chromosomal DNA by activated DNase. A human DNA fragmentation factor (DFF) was identified recently which was cleaved by caspase-3 during apoptosis. Mouse homologue of human DFF was identified as a DNase inhibitor designated ICAD, for inhibitor of caspase-activated Dnase. Upon cleavage of DFF/ICAD, a caspase activated deoxyribonuclease (CAD) is released and activated and eventually causes the degradation of DNA in the nuclei. Therefore, the cleavage of CAD inhibitor molecule DFF/ICAD, which causes DNase activation and DNA degradation, is the hallmark of apoptotic cell death.

**Specificity:**
This antibody recognizes ICAD.

Positive control: Murine lung tissue lysate. A 45kDa band should be detected.

**Species Reactivity:**
Mouse, other species not tested.

**Ig Isotype:** Rabbit IgG

**Immunogen:**
A peptide corresponding to amino acids 312 to 331 of mouse ICAD.

**Format:**
Affinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide.

**Storage and Stability:**
Stable for at least one year when stored at 4°C.

**Applications and Suggested Dilutions:**
- Western blot: Suggested dilution: 1:500 to 1:1000.
  The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**
For in vitro research use only. Not for use in diagnostics or in humans.

**Warranty:**
No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.