

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Anti-CAD (CT) Antibody

### ORDERING INFORMATION

**Catalog No.:** 2011

**Size:** 100 ug IgG in PBS, pH 7.4, purified by immunoaffinity chroma-tography.

### 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 mouse DNase that causes DNA fragmentation was identified recently and designated CAD (caspase activated deoxyribo-nuclease). The human homologue of mouse CAD was more recently identified by two groups independently and termed CPAN and DFF40. Human DFF45 and its mouse homologue ICAD are the inhibitors of CPAN/DFF40 and CAD, respectively. Upon cleavage of DFF45/ICAD by activated caspase, DFF40/CAD is released and activated and eventually causes the degradation of DNA in the nuclei. Activation of CAD/DFF40, which causes DNA degradation, is the hallmark of apoptotic cell death.

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 314-329 of mouse CAD.

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes full-length mouse CAD (40 kD).

### APPLICATIONS

*Immunoblotting:* use at 1:500-1:1,000 dilution.

*Positive control:* Mouse lung or spleen tissue lysate.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*