



Datasheet for ABIN499517  
**anti-DFFB antibody (C-Term)**



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2 Images

Overview

Quantity:	0.1 mg
Target:	DFFB
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DFFB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human CAD (C-Terminus) Peptide
Isotype:	IgG
Specificity:	CAD antibody was raised against a peptide corresponding to amino acids 314 to 329 of murine CAD.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	DFFB
Alternative Name:	DFFB / CAD ( <a href="#">DFFB Products</a> )

## Target Details

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**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 (for caspase activated deoxyribonuclease) (1,2). The human homologue of mouse CAD was more recently identified by two groups independently and termed CPAN and DFF40 (3,4). Human DFF45 and its mouse homologue ICAD are the inhibitors of CPAN/DFF40 and CAD, respectively (1, 2, 5). Upon cleavage of DFF45/ICAD by activated caspase, DFF40/CAD is released and activated and eventually causes the degradation of DNA in the nuclei (1-4). Activation of CAD/DFF40, which causes DNA degradation, is the hallmark of apoptotic cell death. Synonyms: CPAN, Caspase-activated DNase, Caspase-activated deoxyribonuclease, Caspase-activated nuclease, DFF-40, DFF2, DFF40, DNA fragmentation factor 40 kDa subunit, DNA fragmentation factor subunit beta

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**Gene ID:** 13368

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**UniProt:** [O54788](#)

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**Pathways:** [Apoptosis, Caspase Cascade in Apoptosis](#)

## Application Details

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**Application Notes:** ELISA. Western Blot: CAD antibody antibody can be used for detection of CAD at 1/500 to 1/1000 dilution. A 40 kDa band should be detected. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

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**Restrictions:** For Research Use only

## Handling

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**Buffer:** PBS containing 0.02 % sodium azide.

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**Preservative:** Sodium azide

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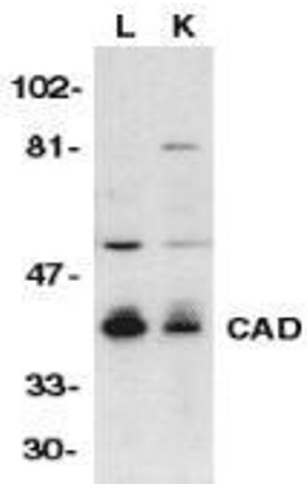
**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**Storage:** 4 °C

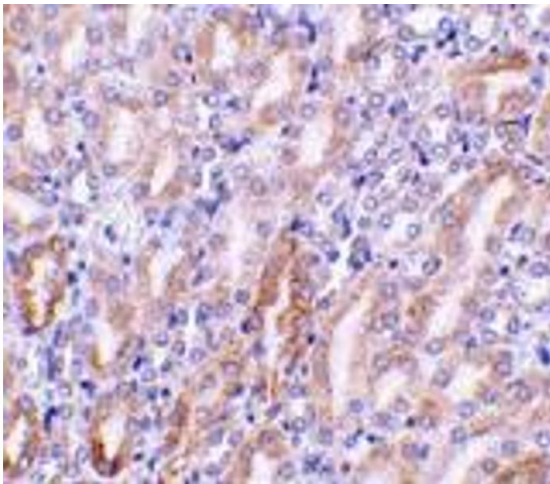
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**Storage Comment:** Store the antibody undiluted at 2-8 °C.



### Western Blotting

**Image 1.** Western blot analysis of CAD in mouse lung (L) and kidney (K) tissue lysates with AP30175PU-N CAD antibody at 1/500 dilution.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Immunohistochemistry of CAD in mouse kidney tissue with CAD antibody at 1 µg/ml.