

Anti-CAD Dffb Antibody

Catalog Number: A05374-2

About DFFB

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). 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.

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Overview

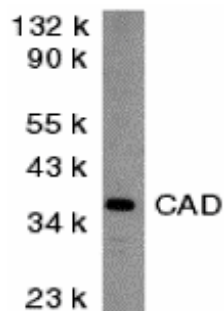
Product Name	Anti-CAD Dffb Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-CAD Dffb Antibody (Catalog # A05374-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	CAD Antibody is supplied in PBS containing $\leq 0.09\%$ sodium azide.
Storage Instructions	CAD antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O54788

Technical Details

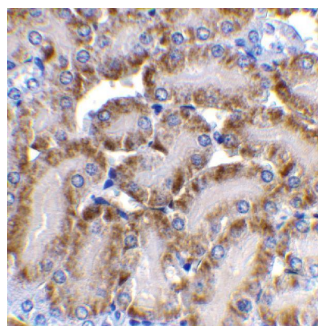
Immunogen	CAD antibody was raised against a peptide corresponding to 17 amino acids near the center of murine CAD. The immunogen is located within amino acids 190 - 240 of CAD.
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Predicted Reactive Species	Bovine, Human
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	CAD Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	CAD antibody can be used for detection of CAD by Western blot at 2 ug/mL. A 40 kDa band should be detected. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 5 ug/mL. Antibody validated: Western Blot in mouse samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

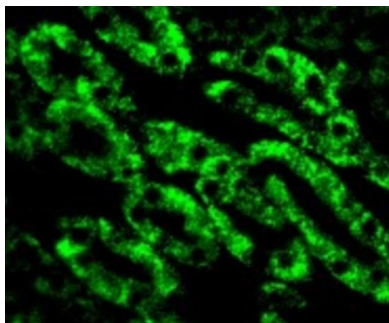
Anti-CAD Dffb Antibody (A05374-2) Images



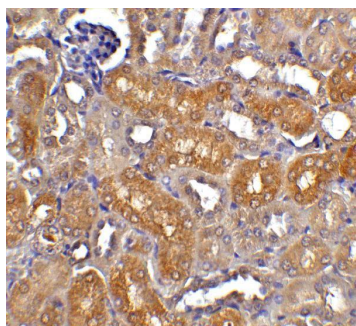
Western blot analysis of CAD in mouse kidney tissue lysate with CAD antibody at 2 ug/mL.



Immunohistochemistry of CAD in mouse kidney tissue with CAD antibody at 2 ug/mL.

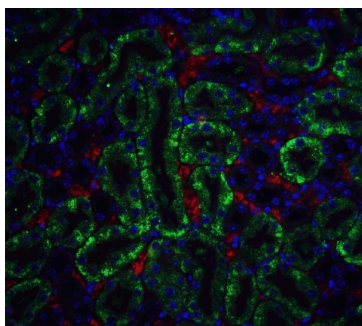


Immunofluorescence of CAD in Mouse Kidney cells with CAD antibody at 10 ug/mL.



Immunohistochemistry of CAD in mouse kidney tissue with CAD antibody at 5 ug/ml.

Immunofluorescence of CAD in mouse kidney tissue with CAD antibody at 5 ug/ml. Green: CAD antibody (A05374-2)
Red: Phylloidin staining Blue: DAPI staining



[Anti-CAD Dffb Antibody](#)

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