



## Rabbit Anti-DFFB antibody

SL0043R

**Product Name** DFFB

**Chinese Name** Caspase 激活的脱氧核糖核酸酶抗体

**Alias**

CAD; 5730477D02Rik; Caldesmon; Caspase activated deoxyribonuclease; Caspase activated DNase; Caspase activated nuclease; Caspase-activated deoxyribonuclease; Caspase-activated DNase; Caspase-activated nuclease; CDM; CPAN; Deoxyribonuclease III, caspase activated; DFF 40; DFF-40; DFF2; DFF40; DFFB\_HUMAN; Didff; DNA fragmentation factor 40 kDa subunit; DNA fragmentation factor subunit beta; DNA fragmentation factor, 40 Da, beta polypeptide (caspase activated DNase); DNA fragmentation factor, 40 kD beta subunit; DNA fragmentation factor, 40 kD, beta polypeptide; DNA fragmentation factor, 40kDa, beta polypeptide (caspase activated DNase); DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase); DNAation factor, beta subunit; OTTHUMP00000003633.

**Research Area**

Cell biology Chromatin and nuclear signals Apoptosis transcriptional regulatory factor

**Immunogen Species**

Rabbit

**Clonality**

Polyclonal

**React Species**

Mouse,Rat (predicted:Rabbit,GuineaPig)

**Applications**

IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight**

40kDa

**Cellular localization**

The nucleus cytoplasmic

**Form**

Liquid

**Concentration** 1mg/ml

**immunogen**

KLH conjugated synthetic peptide derived from mouse DFF-40 beta: 201-260/344

**Lsotype**

IgG

**Purification**

affinity purified by Protein A



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<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a> Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene but the biological validity of these variants has not been determined. [provided by RefSeq, Jul 2008].  <b>Function:</b> Nuclease that induces DNA fragmentation and chromatin condensation during apoptosis. Degrades naked DNA and induces apoptotic morphology.  <b>Subunit:</b> Heterodimer of DFFA and DFFB  <b>Subcellular Location:</b> Cytoplasm. Nucleus.  <b>Similarity:</b> Contains 1 CIDE-N domain.  <b>SWISS:</b> O76075  <b>Gene ID:</b> 1677  <b>Database links:</b> <a href="#">Entrez Gene: 1677</a> Human <a href="#">Entrez Gene: 13368</a> Mouse

[Entrez Gene: 84359](#) Rat

[Omim: 601883](#) Human

[SwissProt: O76075](#) Human

[SwissProt: O54788](#) Mouse

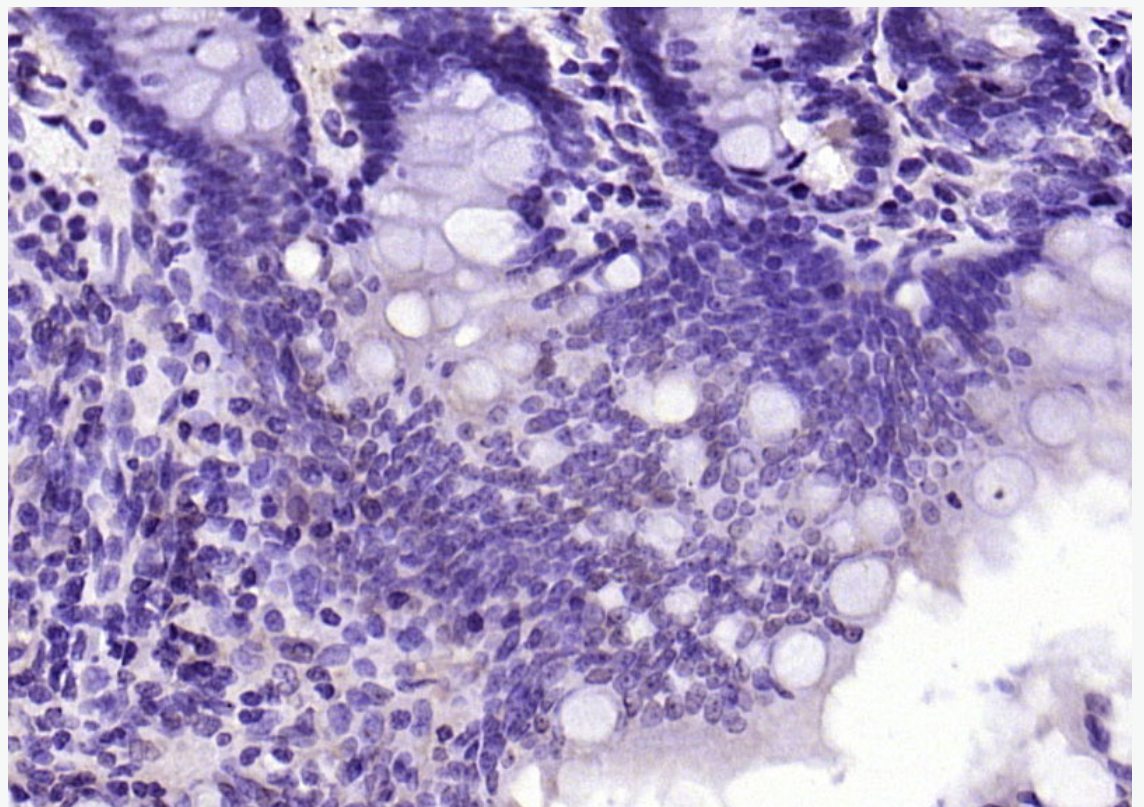
[SwissProt: Q99N34](#) Rat

[Unigene: 133089](#) Human

[Unigene: 388918](#) Mouse

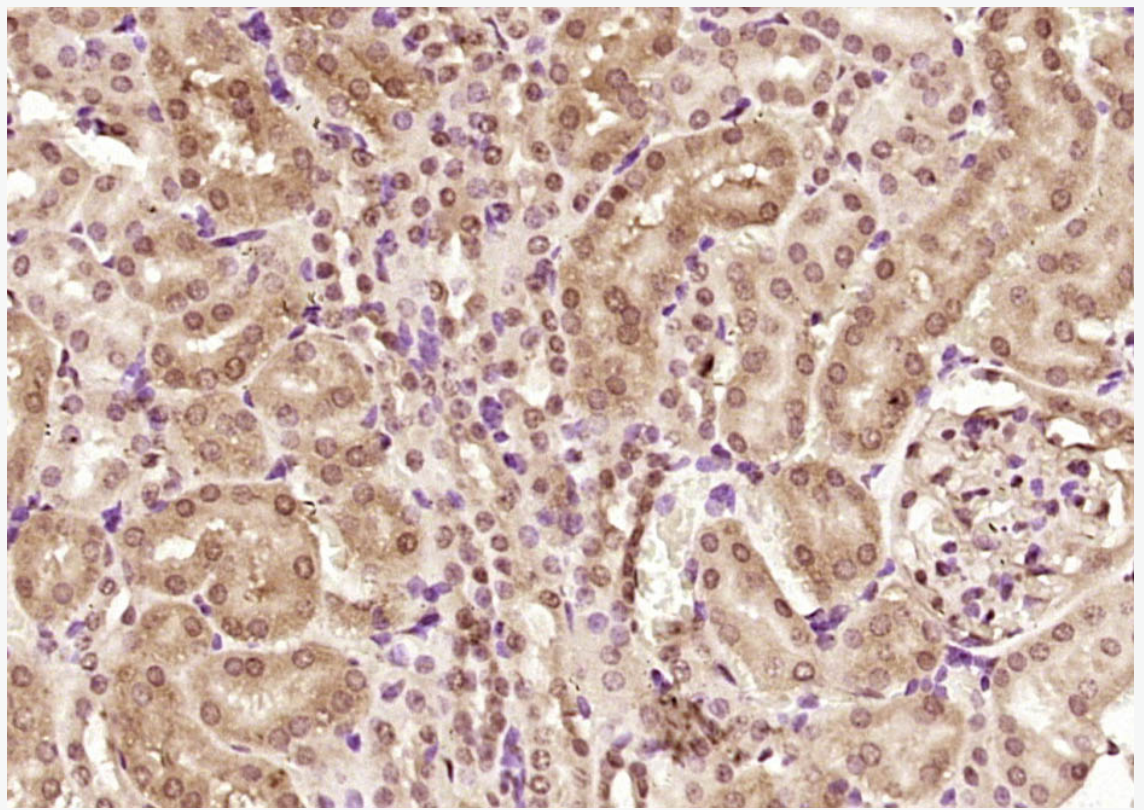
[Unigene: 67077](#) Rat

**Product  
Picture**



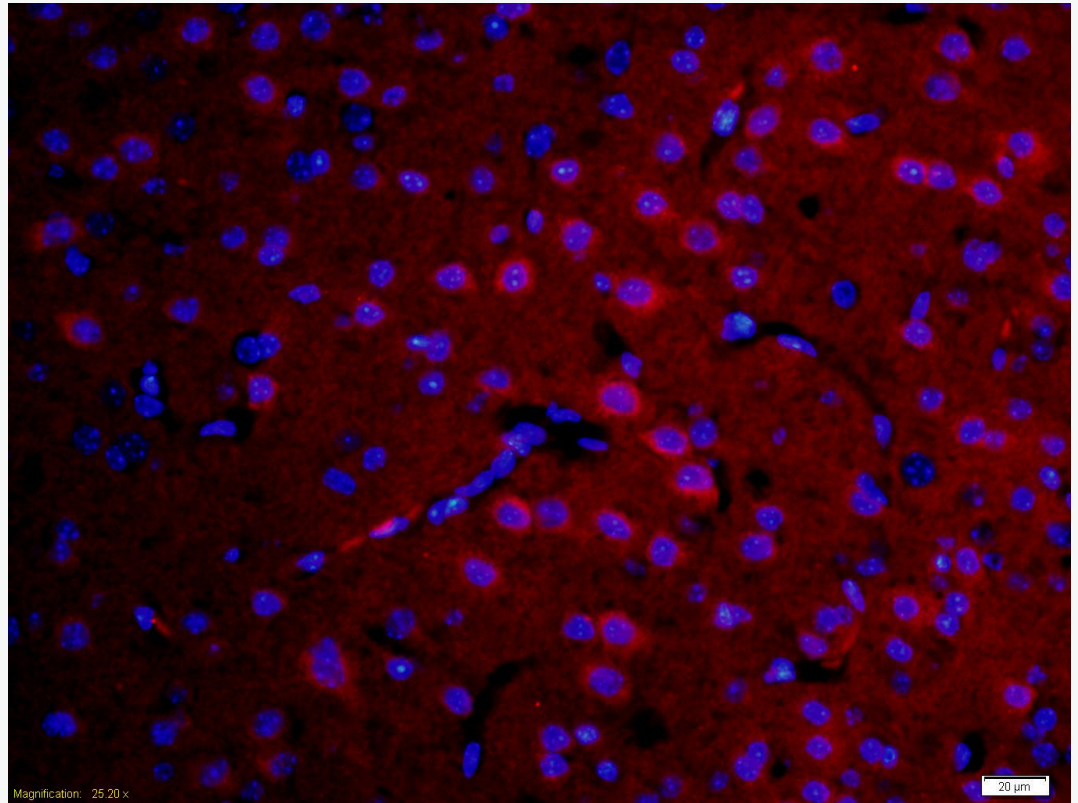
Paraformaldehyde-fixed, paraffin embedded (rat intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3%

hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DFFB) Polyclonal Antibody, Unconjugated (SL0043R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DFFB) Polyclonal Antibody, Unconjugated (SL0043R) at 1:200 overnight at 4°C, followed by operating according to SP

Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Blocking  
buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-DFFB Polyclonal Antibody, Unconjugated(SL0043R) 1:200,  
overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3  
conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.  
DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei