

## Rabbit Anti-DFFA antibody

SL0214R

**Product Name** DFFA

**Chinese Name** DFFA 抗体

**Alias** DNA fragmentation factor subunit alpha; DFF-45; Inhibitor of CAD; ICAD; DFF1; DFF45; H13; DFFA; DFFA\_HUMAN;

**Research Area** Cell biology immunology Chromatin and nuclear signals Apoptosis The new supersedes the old Epigenetics

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, Mouse, Rat,

**Applications** WB=1:500-2000,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** 36kDa

**Cellular localization** cytoplasmic The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human ICAD: 2-100/331

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed** [PubMed](#)

**Product** Caspase-activated deoxyribonuclease(CAD) also designated DNA fragmentation

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**Detail**

factor 45 kDa subunit (DFF-45)and Caspase-activated DNase. CAD is a nuclease that induces DNA fragmentation and chromatin condensation during apoptosis. Degrades naked DNA and induces apoptotic morphology. ICAD (DNA fragmentation factor alpha subunit) (DNA fragmentation factor 45 kDa subunit) (DFF-45) (Inhibitor of CAD) is inhibitor of the caspase-activated DNase (DFF44).

**Function:**

Inhibitor of the caspase-activated DNase (DFF40).

**Subunit:**

Heterodimer of DFFA and DFFB.

**Subcellular Location:**

Cytoplasm.

**Post-translational modifications:**

Caspase-3 cleaves DFF45 at 2 sites to generate an active factor.

**Similarity:**

Contains 1 CIDE-N domain.

**SWISS:**

O54786

**Gene ID:**

1676

**Database links:**

[Entrez Gene: 1676](#) Human

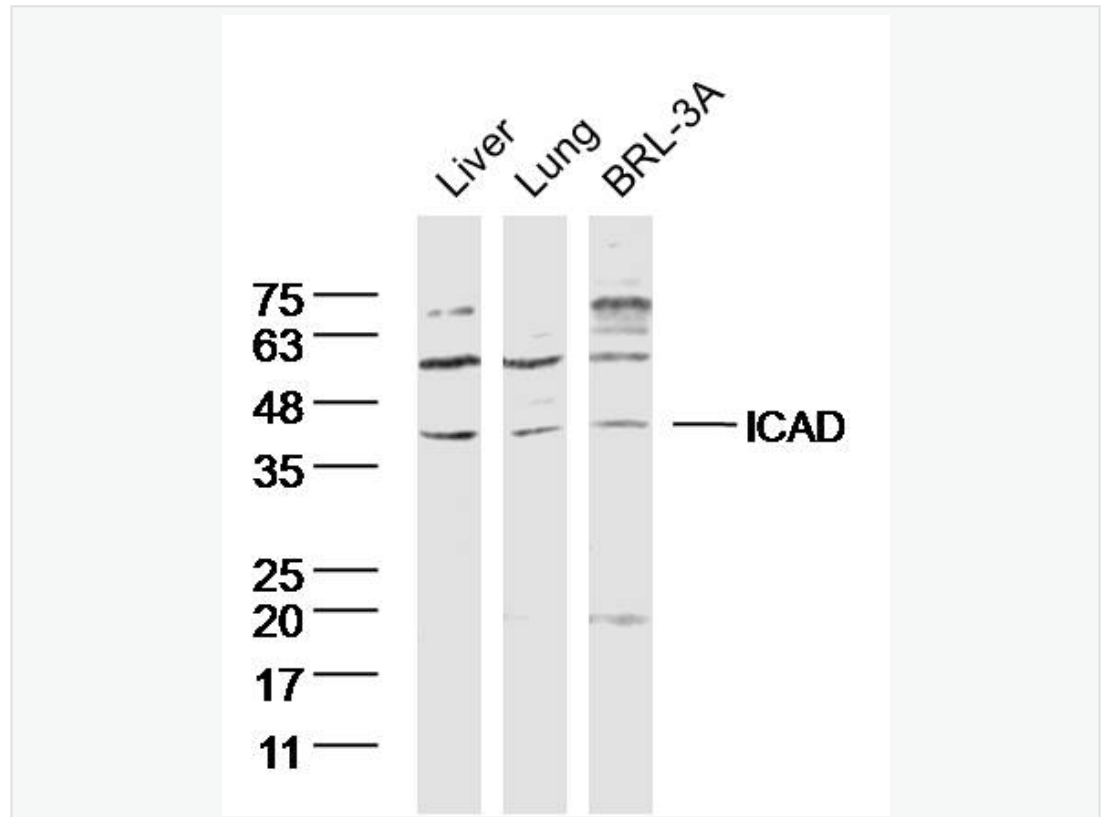
[Omim: 601882](#) Human

[SwissProt: O00273](#) Human

[Unigene: 484782](#) Human

ICAD 是在 Apoptosis 期诱导 DNA 分裂和染色体固缩的一种核酶，降解裸露的 DNA 并诱导形态学变化。

**Product  
Picture**



Sample:

liver (mouse) Lysate at 40 ug

lung(mouse) Lysate at 40 ug

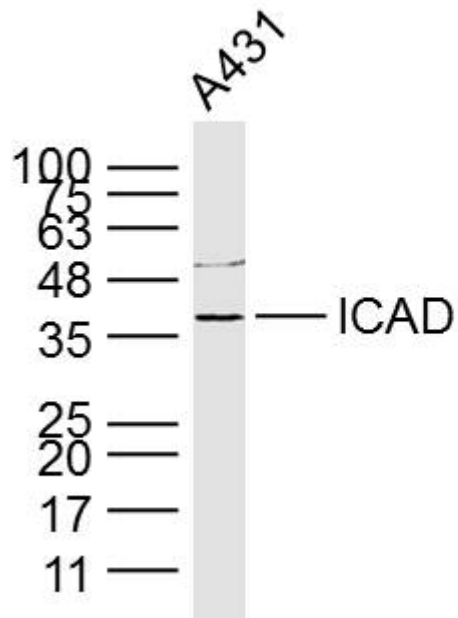
BRL-3A (rat)cell Lysate at 40 ug

Primary: Anti- ICAD (SL0214R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36kD

Observed band size: 36 kD



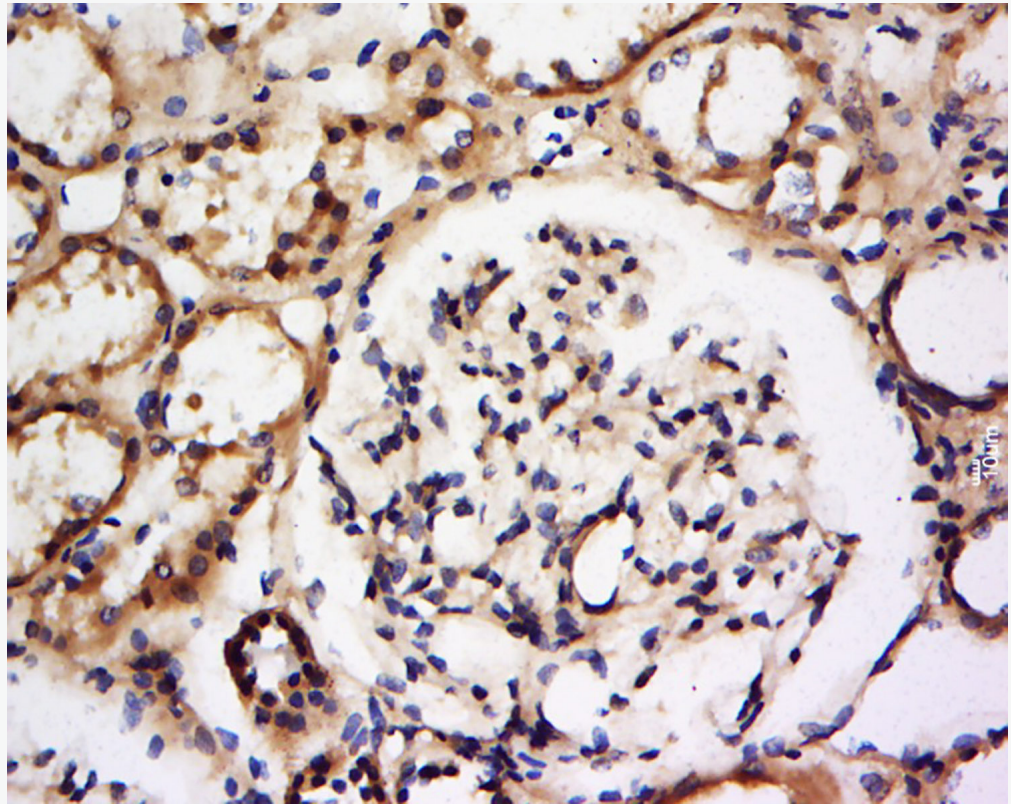
Sample: A431 Cell (Human) Lysate at 40 ug

Primary: Anti-ICAD (SL0214R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

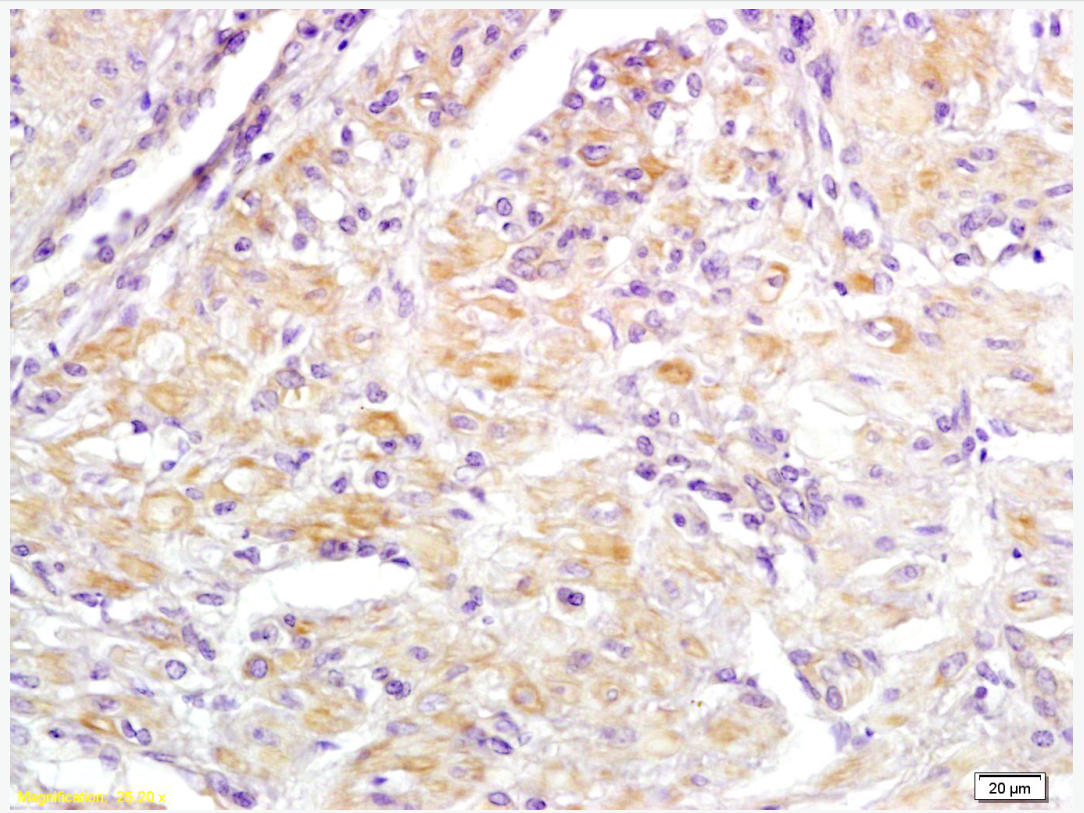
Observed band size: 36 kD



Tissue/cell: Human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ICAD Polyclonal Antibody, Unconjugated(SL0214R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ICAD/DFP-45 Beta Polyclonal Antibody,

Unconjugated(SL0214R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining