

Human DFF45/ICAD Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4679

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects endogenous human DFF45 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human DFF45 Met1-Thr331 Accession # 000273	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

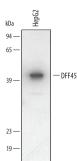
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA

Western Blot



Detection of Human DFF45/ICAD by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 0.5 µg/mL of Human DFF45/ICAD Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4679) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for DFF45/ICAD at approximately 45 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUNI

DFF45 (DNA fragmentation factor 45 kDa subunit, also known as ICAD) is a 45 kDa member of the CIDE domain-containing family of proteins. Human DFF45 is 331 amino acids (aa) in length. It contains an N-terminal CIDE domain (aa 17-96) plus two caspase-3 cleavage sites (aa's 117-118 and 224-225). DFF45 is a cytoplasmic protein that inhibits DFF40 DNAase. Normally, DFF45 and DFF40 form an enzymatically-inactive noncovalent heterodimer. Upon activation of the apoptotic cascade, DFF45 is cleaved into three fragments. These dissociate from DFF40 and induce DFF40 oligomerization and activation. Human DFF45 has two potential splice forms. One is truncated, and shows a seven as substitution for aa 262-331; a second is extended, and shows a 45 aa substitution for the C-terminal five amino acids. Human DFF45 is 76% aa identical to mouse DFF45.

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