

## DESCRIPTION

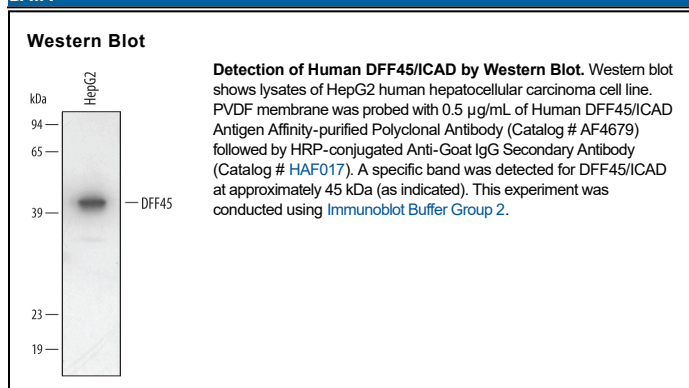
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects endogenous human DFF45 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human DFF45 Met1-Thr331 Accession # O00273
<b>Formulation</b>	Lyophilized 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

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 aa 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.