

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DFF40/CAD in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 609809
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DFF40/CAD Met1-Gln338 Accession # O76075
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DNA fragmentation factor 40 kDa subunit (DFF40), also known as CAD, is a member of the CIDE domain-containing proteins. It is an apoptotic nuclease that is maintained in an inactive state by association with DFF45. Apoptotic signaling induces DFF45 cleavage and the release of DFF40. Active DFF40 exists as an oligomer and generates double stranded breaks in dsDNA. Alternate splicing of human DFF40 generates isoforms with substitutions and truncations either directly following the CIDE domain (which is aa 4-80) or at the C-terminus. Full length human DFF40 (aa 1-338) shares 76% and 74% aa sequence identity with mouse and rat DFF40, respectively.

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