

Anti-CAD/DFFB Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

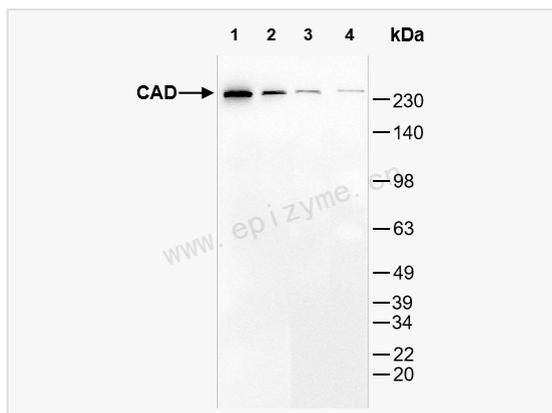
Catalog # R014776

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	39S91M22
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CAD
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CAD/DFFB Rabbit mAb [39S91M22] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	CAD, Caspase activated deoxyribonuclease, Caspase activated DNase, Caspase activated nuclease, Caspase-activated deoxyribonuclease, Caspase-activated DNase, Caspase-activated nuclease, CPAN, Deoxyribonuclease III, caspase activated, DFF 40, DFF-40, DFF2, DFF40, Dffb, 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), OTTHUMP00000003633.
Calculated MW	Calculated MW: 243 kDa; Observed MW: 243 kDa
Uniprot ID	P27708
Gene ID	790
Background	The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate. This gene encodes a trifunctional protein which is associated with the enzymatic activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis: carbamoylphosphate synthetase (CPS II), aspartate transcarbamoylase, and dihydroorotase. This protein is regulated by the mitogen-activated protein kinase (MAPK) cascade, which indicates a direct link between activation of the MAPK cascade and de novo biosynthesis of pyrimidine nucleotides. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]
Cellular Location	Cytoplasm, Nucleus.



Western Blot - Anti-CAD/DFFB Rabbit mAb [39S91M22]

All lanes: R014776 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

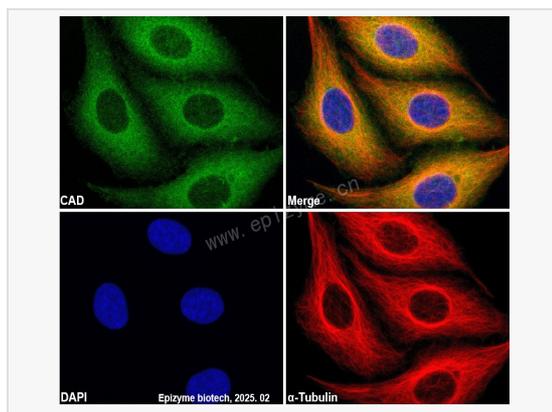
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 243 kDa

Observed band size: 243 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-CAD/DFFB Rabbit mAb [39S91M22]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014776 at 1:100 dilution and alpha-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).