

Anti-CAD Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

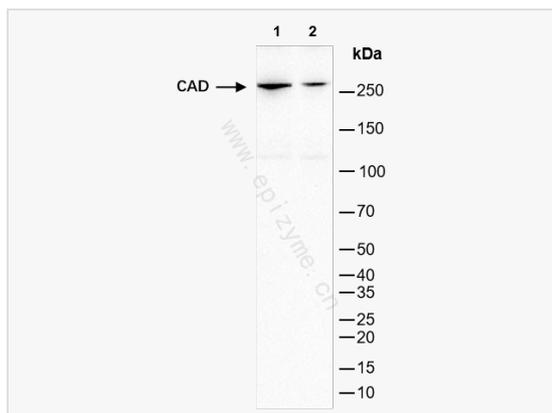
Catalog # R014012

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	87L99Q21
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 Rabbit mAb [87L99Q21] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Aspartate carbamoyltransferase, Aspartate transcarbamylase, CAD protein, CAD trifunctional protein, Carbamoyl phosphate synthetase 2, Carbamoyl-phosphate synthetase 2 aspartate transcarbamylase and dihydroorotase, CPSase ATCase DHOase, Dihydroorotase, Glutamine dependent carbamoyl phosphate synthase, Multifunctional protein CAD.
Calculated MW	Calculated MW: 243 kDa; Observed MW: 260 kDa
Uniprot ID	P27708
Gene ID	790
Background	Carbamoyl phosphate synthetase-aspartate carbamoyltransferase-dihydroorotase (CAD) is a multifunctional protein that initiates and regulates mammalian de novo pyrimidine biosynthesis.
Cellular Location	Cytoplasmic and Nuclear



Western Blot - Anti-CAD Rabbit mAb [87L99Q21]

All lanes: R014012 at 1:1,000 dilution

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

Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

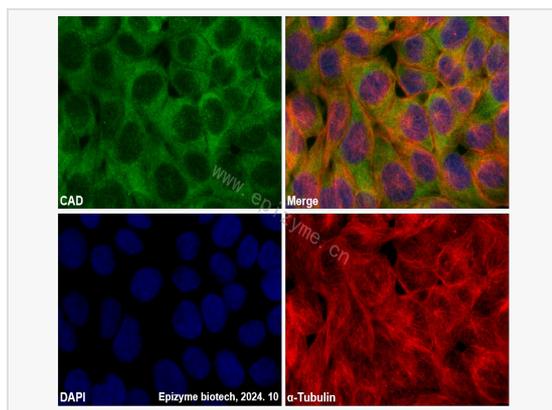
Lysates/proteins at 10 µg per lane.

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: 260 kDa

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



Immunofluorescence - Anti-CAD Rabbit mAb [87L99Q21]

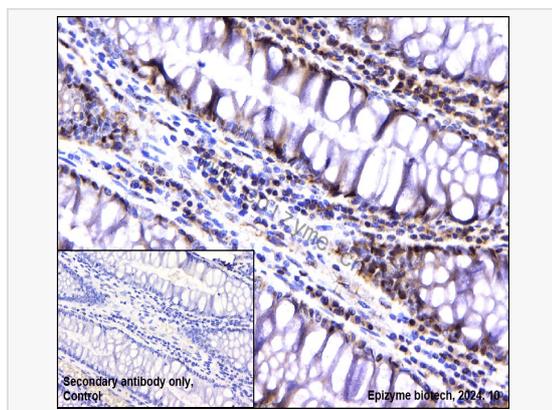
Sample: HCT116 cells

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: R014012 at 1:100 dilution and α -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).



Immunohistochemistry - Anti-CAD Rabbit mAb [87L99Q21]

Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014012 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.