

CAD Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP_004332.2

Catalog No. A301-374A

GeneID 790

Lot No. A301-374A-3



APPLICATIONS	WB, IP, IHC
SPECIES REACTIVITY	Human, Mouse
AMOUNT	100 µl
CONCENTRATION	200 µg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to CAD immobilized on solid support.

The epitope recognized by A301-374A maps to a region between residue 1850 and 2000 of human carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase using the numbering given in entry NP_004332.2 (GeneID 790).

Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.

APPLICATIONS Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot 1:2,000 - 1:10,000

Immunoprecipitation 2 - 10 µg/mg lysate

Immunohistochemistry 1:500 to 1:2,000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

APPLICATION NOTES Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-8% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).

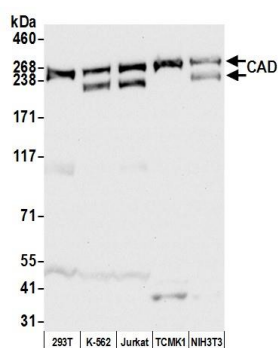
IHC HUMAN CONTROLS Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE. Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma

ADDITIONAL INFO <https://www.bethyl.com/product/A301-374A>

Use the link above to view SDS, a current list of citations, and other product specific information.

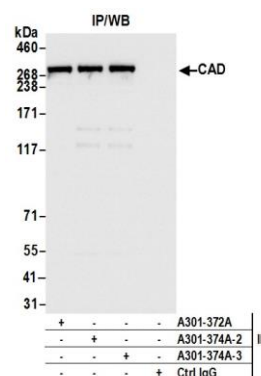
IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Eric McIntush, PhD | Chief Scientific Officer Date: June 24, 2019



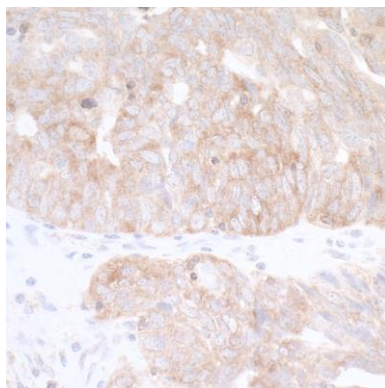
Detection of human and mouse CAD by western blot.

Samples: Whole cell lysate (50 µg) from HEK293T, K-562, Jurkat, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. **Antibody:** Affinity purified rabbit anti-CAD antibody A301-374A (lot A301-374A-3) used for WB at 0.04 µg/ml. **Detection:** Chemiluminescence with an exposure time of 10 seconds.



Detection of human CAD by western blot of immunoprecipitates.

Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. **Antibodies:** Affinity purified rabbit anti-CAD antibody A301-374A (lot A301-374A-3) used for IP at 6 µg per reaction. CAD was also immunoprecipitated by a previous lot of this antibody (lot A301-374A-2) and rabbit anti-CAD antibody A301-372A. For blotting immunoprecipitated CAD, A301-374A was used at 0.04 µg/ml. **Detection:** Chemiluminescence with an exposure time of 1 second.



Detection of human CAD by immunohistochemistry.

Sample: FFPE section of human ovarian carcinoma. **Antibody:** Affinity purified rabbit anti-CAD (Cat. No. A301-374A lot 3) used at a dilution of 1:1,000 (0.2 µg/ml). **Detection:** DAB