

Datasheet for ABIN2782488
anti-CAD antibody (N-Term)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | CAD |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse, Rat, Dog, Rabbit, Horse, Guinea Pig, Cow, Zebrafish (Danio rerio), Sheep |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CAD antibody is un-conjugated |
| Application: | Western Blotting (WB) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | The immunogen is a synthetic peptide directed towards the N terminal region of human CAD |
| Sequence: | AALVLEDGSV LRGQPFGAAV STAGEVVFQT GMVGYPEALT DPSYKAQILV |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%, Sheep: 86%, Zebrafish: 93% |
| Characteristics: | This is a rabbit polyclonal antibody against CAD. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Affinity Purified |

Target Details

| | |
|---------|-----|
| Target: | CAD |
|---------|-----|

Target Details

Alternative Name: CAD ([CAD Products](#))

Background: CAD is 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. 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.

Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: -

Protein Interaction Partner: UBC, TUBG1, TP53, SUMO2, SPRTN, STAU1, LGR4, SUMO1, NEDD8, WWOX, NEDD4, FBXO6, HDAC6, ILK, CDK2, HDAC11, HTRA2, TP63, NOS2, ITGA4, RUVBL1, XPO1, VARS, TUBB2A, TUBA4A, SMARCC2, SMARCA4, RPS3, PSMD1, PSMC2, RUVBL2, TUBB4B, SHC1, SMAD2, GRB2, CBL, CUL3, FBXO

Protein Size: 2225

Molecular Weight: 243 kDa

Gene ID: 790

NCBI Accession: [NM_004341](#), [NP_004332](#)

UniProt: [P27708](#)

Pathways: [Production of Molecular Mediator of Immune Response](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

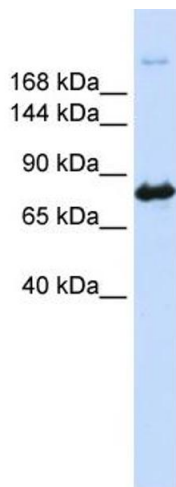
Comment: Antigen size: 2225 AA

Restrictions: For Research Use only

Handling

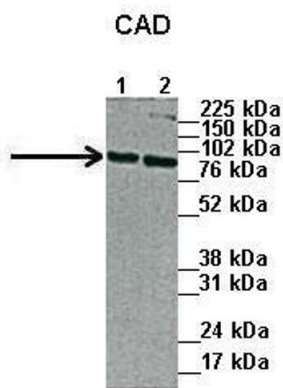
| | |
|--------------------|---|
| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Images



Western Blotting

Image 1. WB Suggested Anti-CAD Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 293T cell lysate



Western Blotting

Image 2. Lanes: 1. 45ug capan1 cell lysate 2. 45 ug HPAF cell lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-Rabbit HRP Secondary Antibody Dilution: 1:5000 Gene Name: CAD Submitted by: Dr. Pankaj Singh, UNMC, Omaha, NE

See Immunoblot 2 Data and Customer Feedback for more information