

Datasheet for ABIN3030276
anti-CAD antibody (AA 780-809)

5 Images

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Overview

Quantity:	0.4 mL
Target:	CAD
Binding Specificity:	AA 780-809
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CAD antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	A portion of amino acids 780-809 from the human protein was used as the immunogen for this CAD antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse
Purification:	Antigen affinity purified

Target Details

Target:	CAD
Alternative Name:	CAD (CAD Products)
Background:	The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate.

Target Details

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.

UniProt: [P27708](#)

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

Application Details

Application Notes: Titration of the CAD antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50,Flow Cytometry: 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

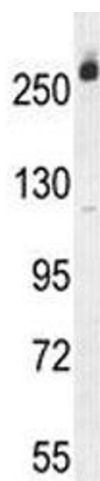
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

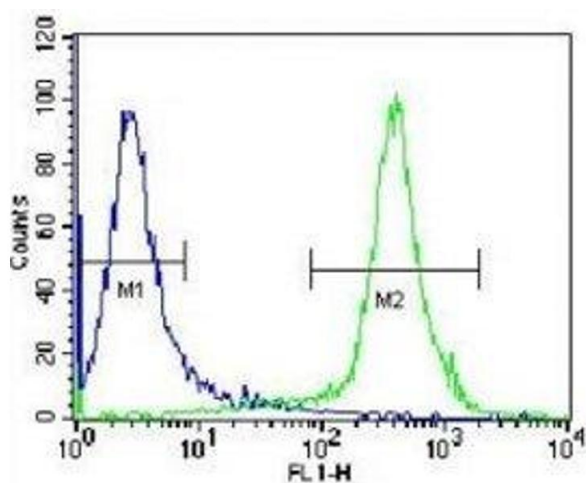
Storage: -20 °C

Storage Comment: Aliquot the CAD antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



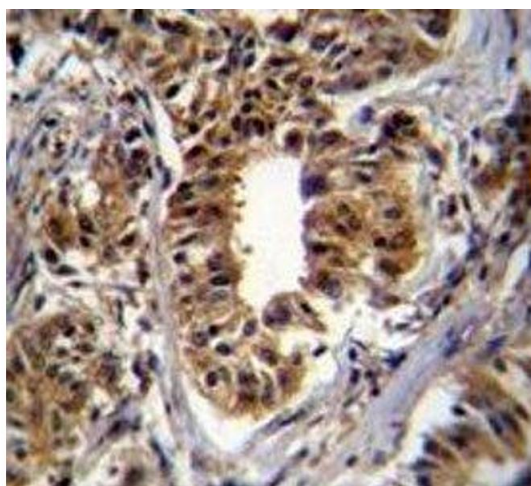
Western Blotting

Image 1. CAD antibody western blot analysis in Jurkat lysate. Predicted molecular weight ~243 kDa.



Flow Cytometry

Image 2. CAD antibody flow cytometric analysis of Jurkat cells (green) compared to a negative control (blue). FITC-conjugated donkey-anti-rabbit secondary Ab was used for the analysis.



Immunohistochemistry

Image 3. CAD antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3030276.