

## Rabbit anti-Human, Mouse CAD Polyclonal Antibody | anti-CAD antibody

CAD Polyclonal Antibody

|                              |                       |                                   |                                                                               |
|------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA29855</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence</b> |
|------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------------------|

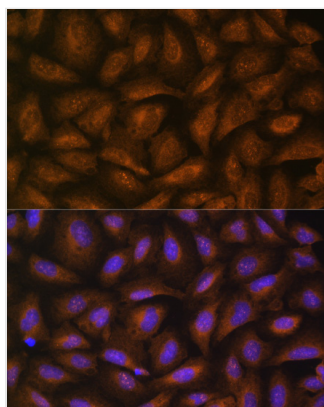
### PRODUCT SYNONYMS

CAD; Polyclonal Antibody; CAD Polyclonal Antibody; CDG1Z; EIEE50; GATD4; CAD protein; anti-CAD antibody

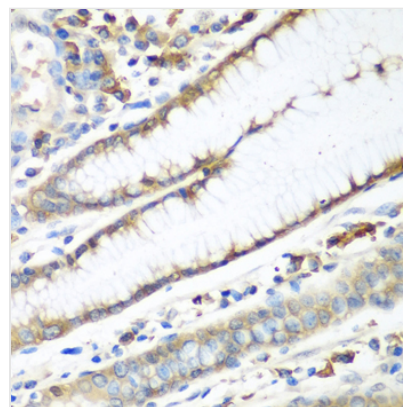
### PRODUCT SPECIFICATIONS

|                                               |                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                 |
| Reactivity                                    | Human, Mouse                                                           |
| Clonality                                     | Polyclonal                                                             |
| Isotype                                       | IgG                                                                    |
| Purity/Purification                           | Affinity purification                                                  |
| Form/Format                                   | PBS with 50% glycerol, pH7.4                                           |
| Applicable Applications for anti-CAD antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence) |
| Application Notes                             | WB: 1:500-1:2000<br>IHC: 1:50-1:100<br>IF: 1:50-1:200                  |
| Immunogen                                     | Recombinant fusion protein of human CAD (NP_004332.2).                 |
| Conjugation                                   | Unconjugated                                                           |
| Preparation and Storage                       | Store at -20 degree C. Avoid freeze/thaw cycles.                       |

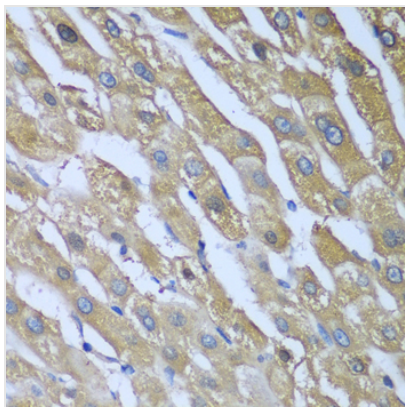
### IMAGES


**IF (Immunofluorescence)**

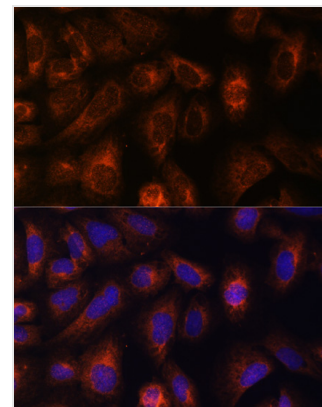
Immunofluorescence analysis of U-2 OS cells using CAD antibody.


**IHC (Immunohistochemistry)**

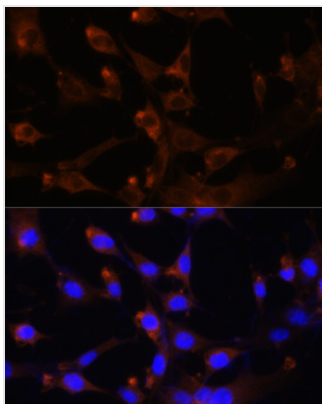
Immunohistochemistry of paraffin-embedded human stomach using CAD antibody.



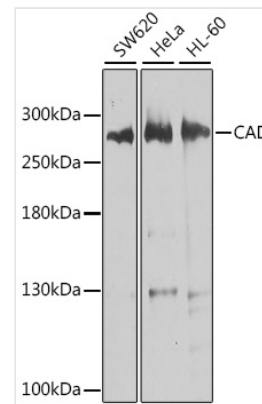
**IHC (Immunohistochemistry)**  
Immunohistochemistry of paraffin-embedded human liver using CAD antibody.



**IF (Immunofluorescence)**  
Immunofluorescence analysis of U-2 OS cells using CAD antibody.



**IF (Immunofluorescence)**  
Immunofluorescence analysis of NIH-3T3 cells using CAD antibody.



**WB (Western Blot)**  
Western blot analysis of extracts of various cell lines, using CAD antibody.

## ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-CAD antibody</b> | 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. |
| <b>Product Categories/Family for anti-CAD antibody</b>   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 18105007                                                                         |
| <b>NCBI GeneID</b>                      | 790                                                                              |
| <b>NCBI Accession #</b>                 | NP_004332.2                                                                      |
| <b>NCBI GenBank Nucleotide #</b>        | NM_004341.3                                                                      |
| <b>UniProt Accession #</b>              | P27708; Q6P0Q0; D6W552                                                           |
| <b>Molecular Weight</b>                 | 242,984 Da                                                                       |
| <b>NCBI Official Full Name</b>          | CAD protein                                                                      |
| <b>NCBI Official Synonym Full Names</b> | carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase |
| <b>NCBI Official Symbol</b>             | CAD                                                                              |

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| NCBI Protein Information | CAD protein; CAD trifunctional protein; multifunctional protein CAD |
| UniProt Protein Name     | CAD protein                                                         |
| UniProt Gene Name        | <b>CAD</b>                                                          |
| UniProt Entry Name       | PYR1_HUMAN                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cad-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/29855>