

## CAD Polyclonal Antibody

catalog number: **E-AB-62648**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

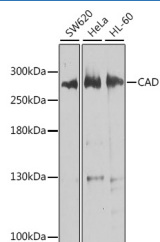
### Description

<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	Recombinant fusion protein of human CAD (NP_004332.2).
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

### Applications

Applications	Recommended Dilution
<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:50-1:100
<b>IF</b>	1:50-1:200

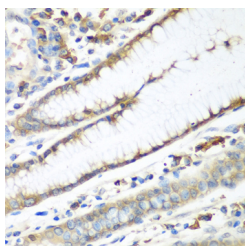
### Data



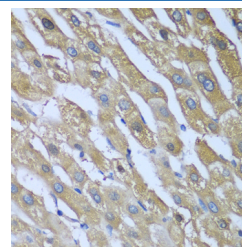
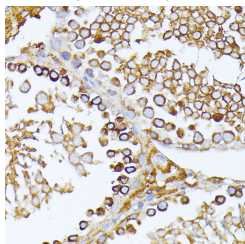
Western blot analysis of extracts of various cell lines using CAD Polyclonal Antibody at dilution of 1:1000.

**Observed-MW:243 kDa**

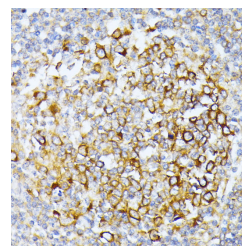
**Calculated-MW:242 kDa**



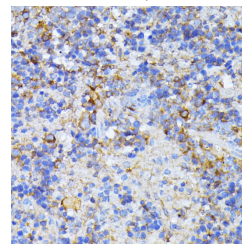
Immunohistochemistry of paraffin-embedded Human stomach using CAD Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Human liver using CAD Polyclonal Antibody at dilution of 1:100 (40x lens).

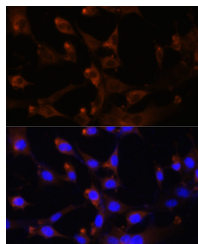


Immunohistochemistry of paraffin-embedded Human tonsil using CAD Polyclonal Antibody at dilution of 1:100 (40x lens).

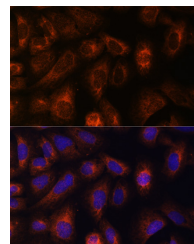


### For Research Use Only

Immunohistochemistry of paraffin-embedded Rat testis using CAD Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse spleen using CAD Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunofluorescence analysis of NIH-3T3 cells using CAD Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of U-2 OS cells using CAD Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

### Preparation & Storage

#### Storage

Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

#### Shipping

The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### Background

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.

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