

## Product datasheet

# Anti-COASY antibody ab155551

★★★★★ [1 Abreviews](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-COASY antibody
<b>Description</b>	Rabbit polyclonal to COASY
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to a region within amino acids 1-291 of Human COASY (Uniprot ID: Q13057).
<b>Positive control</b>	HeLa whole cell lysate; HeLa cells; colon carcinoma tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab155551 in the following tested applications.

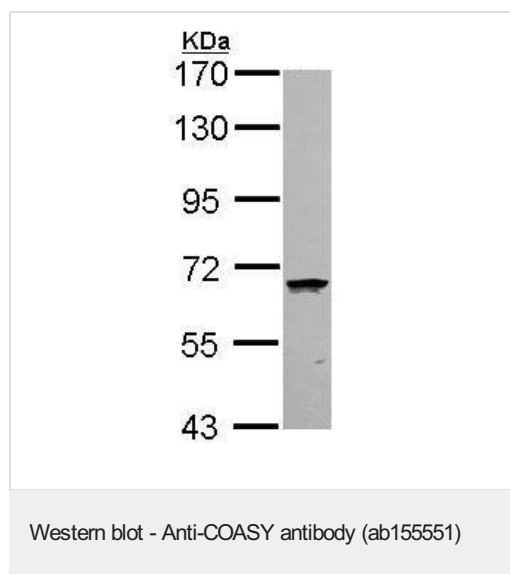
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 62 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Suggested antigen retrieval using heat mediated 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0)
ICC/IF		1/100 - 1/1000.

## Target

<b>Function</b>	Bifunctional enzyme that catalyzes the fourth and fifth sequential steps of CoA biosynthetic pathway. The fourth reaction is catalyzed by the phosphopantetheine adenylyltransferase, coded by the coaD domain; the fifth reaction is catalyzed by the dephospho-CoA kinase, coded by the coaE domain. May act as a point of CoA biosynthesis regulation.
<b>Tissue specificity</b>	Expressed in all tissues examined including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood leukocyte. Lowest expression in peripheral blood leukocytes and highest in kidney and liver. Isoform 2 is expressed mainly in the brain.
<b>Pathway</b>	Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 4/5. Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 5/5.
<b>Sequence similarities</b>	In the central section; belongs to the eukaryotic coaD family. Contains 1 DPCK (dephospho-CoA kinase) domain.
<b>Cellular localization</b>	Cytoplasm.

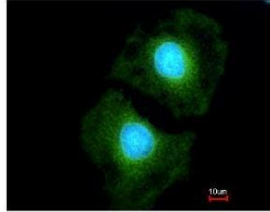
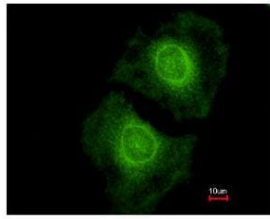
## Images



Anti-COASY antibody (ab155551) at 1/1000 dilution + HeLa whole cell lysate at 30 µg

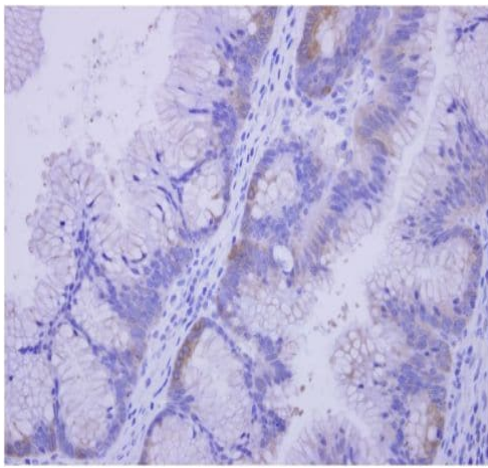
**Predicted band size:** 62 kDa

7.5% SDS PAGE



Immunofluorescence analysis of methanol-fixed HeLa cells labeling COASY with ab155551 at 1/200 dilution (green). The image in the lower panel is costained with Hoechst 33342 (blue).

Immunocytochemistry/ Immunofluorescence - Anti-COASY antibody (ab155551)



Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling COASY with ab155551 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COASY antibody (ab155551)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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