

Product datasheet

Anti-COASY antibody ab227272

6 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-COASY antibody |
| Description | Rabbit polyclonal to COASY |
| Host species | Rabbit |
| Tested applications | Suitable for: ICC/IF, IHC-P, WB |
| Species reactivity | Reacts with: Mouse, Human Predicted to work with: Pig  |
| Immunogen | Recombinant fragment within Human COASY (internal sequence). The exact sequence is proprietary. Database link: Q13057 |
| Positive control | WB: Mouse liver tissue lysate; HeLa S3 whole cell lysate. IHC-P: Mouse kidney and prostate tissue; NCIN87 xenograft tissue. ICC/IF: HeLa cells. |
| General notes | <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine) |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab227272** in the following tested applications.

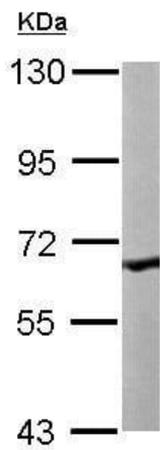
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| ICC/IF | | 1/100 - 1/1000. |
| IHC-P | | 1/100 - 1/1000. |
| WB | | 1/500 - 1/3000. Predicted molecular weight: 62 kDa. |

Target

| | |
|------------------------------|---|
| Function | 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. |
| Tissue specificity | 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. |
| Pathway | Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 4/5. Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 5/5. |
| Sequence similarities | In the central section; belongs to the eukaryotic coaD family. Contains 1 DPCK (dephospho-CoA kinase) domain. |
| Cellular localization | Cytoplasm. |

Images



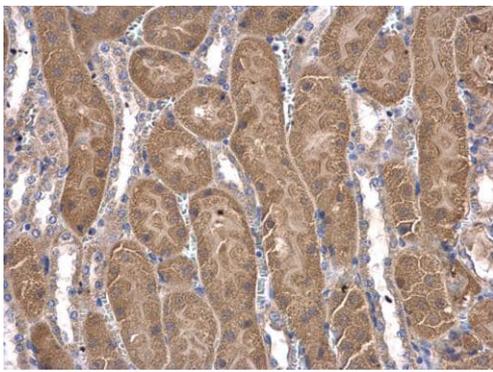
Western blot - Anti-COASY antibody (ab227272)

Anti-COASY antibody (ab227272) at 1/3000 dilution + Mouse liver tissue lysate at 50 μ g

Developed using the ECL technique.

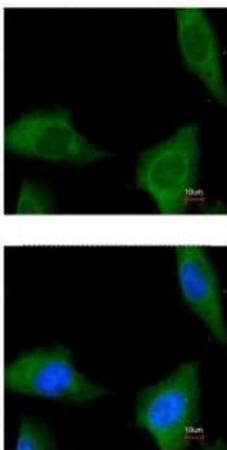
Predicted band size: 62 kDa

7.5% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COASY antibody (ab227272)

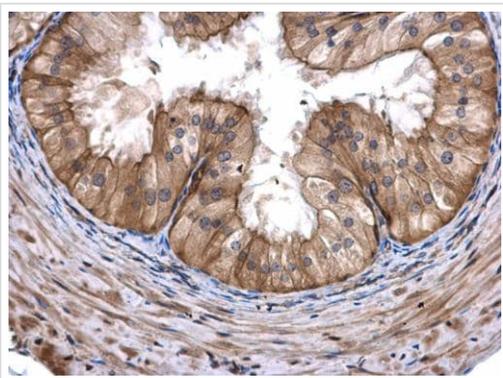
Paraffin-embedded mouse kidney tissue stained for COASY with ab227272 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-COASY antibody (ab227272)

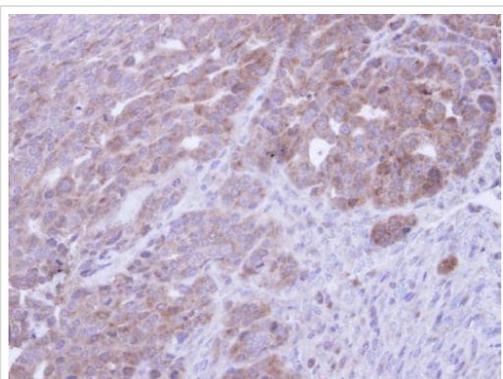
Paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for COASY (green) using ab227272 at 1/200 dilution in ICC/IF.

Blue: Hoechst 33342 staining (lower panel).



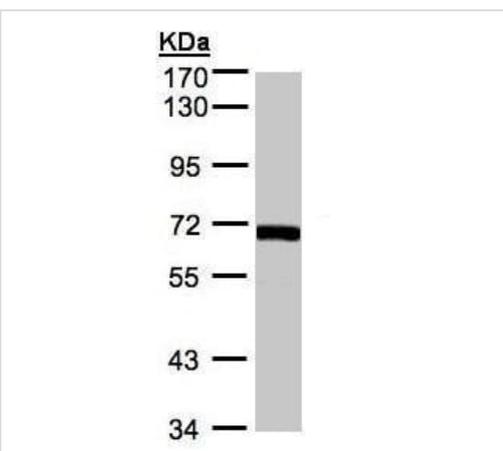
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COASY antibody (ab227272)

Paraffin-embedded mouse prostate tissue stained for COASY with ab227272 at 1/500 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COASY antibody (ab227272)

Paraffin-embedded NCIN87 xenograft tissue stained for COASY with ab227272 at 1/500 dilution in immunohistochemical analysis.



Western blot - Anti-COASY antibody (ab227272)

Anti-COASY antibody (ab227272) at 1/1000 dilution + HeLa S3 (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 30 μ g

Developed using the ECL technique.

Predicted band size: 62 kDa

7.5% SDS-PAGE

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

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