

Product datasheet

Anti-COASY antibody [EPR8246] - BSA and Azide free ab248259

Recombinant RabMAb

[1 References](#) [4 Images](#)

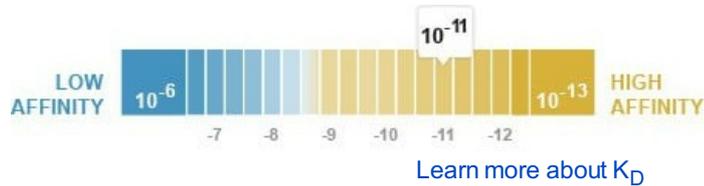
Overview

Product name	Anti-COASY antibody [EPR8246] - BSA and Azide free
Description	Rabbit monoclonal [EPR8246] to COASY - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab248259 is the carrier-free version of ab129012.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with</p>

these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K _D = 4.20 x 10 ⁻¹¹ M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR8246
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab248259 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 62 kDa (predicted molecular weight: 62 kDa).

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Bifunctional enzyme that catalyzes the fourth and fifth sequential steps of CoA biosynthetic pathway. The fourth reaction is catalyzed by the phosphopantetheine adenyltransferase, 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.

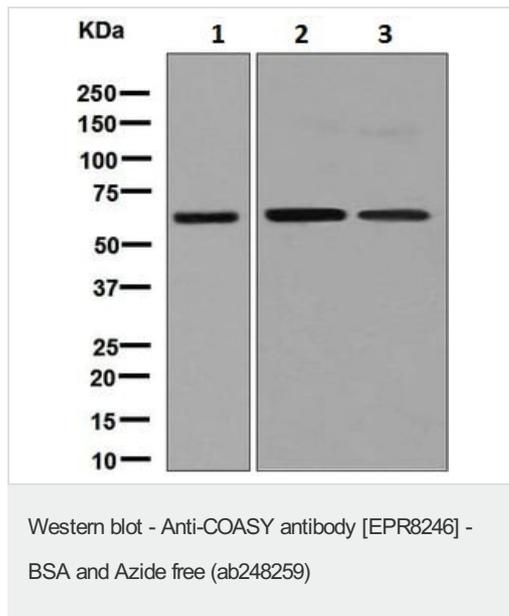
Sequence similarities

In the central section; belongs to the eukaryotic coaD family.
Contains 1 DPCK (dephospho-CoA kinase) domain.

Cellular localization

Cytoplasm.

Images



All lanes : Anti-COASY antibody [EPR8246] ([ab129012](#)) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : A431 cell lysate

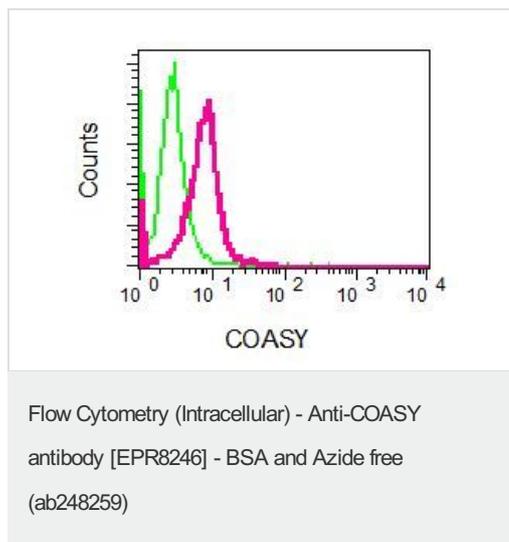
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

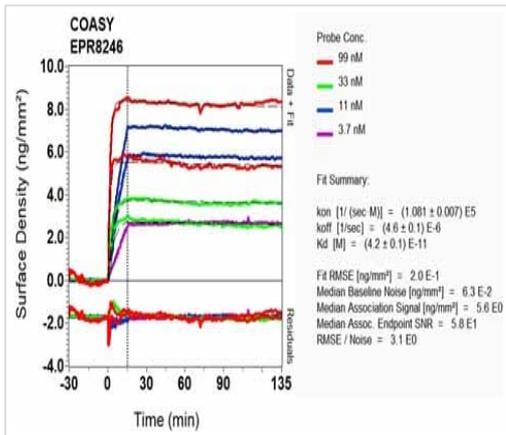
Predicted band size: 62 kDa

This data was developed using [ab129012](#), the same antibody clone in a different buffer formulation.



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[ab129012](#), at 1/10 dilution, staining COASY in permeabilized HeLa cells by intracellular flow cytometry (red) or a Rabbit IgG negative control (green).



OI-RD Scanning - Anti-COASY antibody [EPR8246]
 - BSA and Azide free (ab248259)

This data was developed using [ab129012](#), the same antibody clone in a different buffer formulation. Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

Research with confidence
 Consistent and reproducible results

Long-term and scalable supply
 Recombinant technology

Success from the first experiment
 Confirmed specificity

Ethical standards compliant
 Animal-free production

Anti-COASY antibody [EPR8246] - BSA and Azide free (ab248259)

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