

# Anti-Superoxide Dismutase 3/EC-SOD antibody [EPR10860] - BSA and Azide free ab249643

Recombinant RabMAb

4 Images

## Overview

Product name	Anti-Superoxide Dismutase 3/EC-SOD antibody [EPR10860] - BSA and Azide free
Description	Rabbit monoclonal [EPR10860] to Superoxide Dismutase 3/EC-SOD - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> ICC/IF or IP
Species reactivity	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
Immunogen	Synthetic peptide within Human Superoxide Dismutase 3/EC-SOD aa 200 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P08294</a>
General notes	<p>ab249643 is the carrier-free version of <a href="#">ab171738</a>.</p> <p>Our <b>carrier-free</b> 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 <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> 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"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR10860
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab249643 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

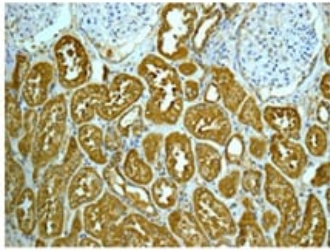
Application	Abreviews	Notes
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 26 kDa.

**Application notes** Is unsuitable for ICC/IF or IP.

## Target

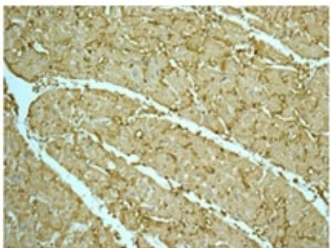
<b>Function</b>	Protect the extracellular space from toxic effect of reactive oxygen intermediates by converting superoxide radicals into hydrogen peroxide and oxygen.
<b>Tissue specificity</b>	Expressed in blood vessels, heart, lung, kidney and placenta. Major SOD isoenzyme in extracellular fluids such as plasma, lymph and synovial fluid.
<b>Sequence similarities</b>	Belongs to the Cu-Zn superoxide dismutase family.
<b>Cellular localization</b>	Secreted > extracellular space. 99% of EC-SOD is anchored to heparan sulfate proteoglycans in the tissue interstitium, and 1% is located in the vasculature in equilibrium between the plasma and the endothelium.

## Images



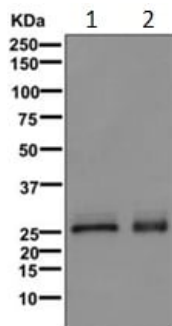
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Superoxide Dismutase 3/EC-SOD antibody [EPR10860] - BSA and Azide free (ab249643)

This data was developed using [ab171738](#), the same antibody clone in a different buffer formulation. Immunohistochemistry of paraffin-embedded Human kidney tissue labeling Superoxide Dismutase 3/EC-SOD using [ab171738](#) at 1/50 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Superoxide Dismutase 3/EC-SOD antibody [EPR10860] - BSA and Azide free (ab249643)

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Western blot - Anti-Superoxide Dismutase 3/EC-SOD antibody [EPR10860] - BSA and Azide free (ab249643)

This data was developed using [ab171738](#), the same antibody clone in a different buffer formulation.

### 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-Superoxide Dismutase 3/EC-SOD antibody  
[EPR10860] - BSA and Azide free (ab249643)

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

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