

## Product datasheet

# Anti-Caspase-4 antibody [EPR22605-277] - BSA and Azide free (Capture) ab275270

Recombinant RabMAb

## 2 Images

### Overview

<b>Product name</b>	Anti-Caspase-4 antibody [EPR22605-277] - BSA and Azide free (Capture)
<b>Description</b>	Rabbit monoclonal [EPR22605-277] to Caspase-4 - BSA and Azide free (Capture)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Sandwich ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab275270 is a BSA and Azide Free antibody supplied in an unconjugated format and it is suitable for sandwich ELISAs to quantify Human Caspase 4. The recommended pair for sandwich ELISA is:</p> <p>Capture: ab275270, Human Caspase 4 Capture Antibody (unconjugated) Detector: <b>ab275271</b>, Human Caspase 4 Detector Antibody (unconjugated)</p> <p>The reference range value is 39.063 - 2500 pg/ml.</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>The recommended antibody orientation is based on internal optimization for ELISA-based assays. Antibody orientation is assay dependent and needs to be optimized for each assay type. Please note that the range provided for this antibody is only an estimation based on the performance of the product using the recommended antibody pair. Performance of the antibody pair will depend on the specific characteristics of your assay. We guarantee the product works in sandwich ELISA, but we do not guarantee the sensitivity or dynamic range of the antibody in your assay.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p>

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22605-277
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab275270 in the following tested applications.

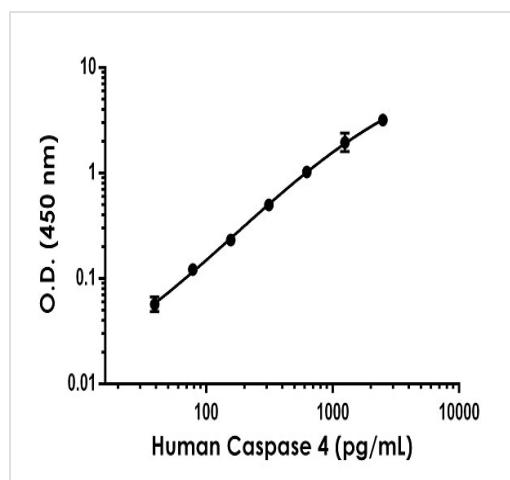
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Sandwich ELISA</b>		Use at an assay dependent concentration. Can be paired for Sandwich ELISA with <a href="#">PE / R-Phycoerythrin Conjugation Kit - Lightning-Link<sup>®</sup> (ab102918)</a> and <a href="#">Streptavidin Conjugation Kit - Lightning-Link<sup>®</sup> (ab102921)</a> and <a href="#">Biotinylation Kit / Biotin Conjugation Kit (Fast and Type A) - Lightning-Link<sup>®</sup> (ab201795)</a> and <a href="#">Rabbit monoclonal [EPR22605-295] to Caspase-4 - BSA and Azide free (Detector) (ab275271)</a> .

## Target

<b>Function</b>	Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves caspase-1.
<b>Tissue specificity</b>	Widely expressed, with highest levels in spleen and lung. Moderate expression in heart and liver, low expression in skeletal muscle, kidney and testis. Not found in the brain.
<b>Sequence similarities</b>	Belongs to the peptidase C14A family. Contains 1 CARD domain.
<b>Post-translational modifications</b>	The two subunits are derived from the precursor sequence by an autocatalytic mechanism or by cleavage by Caspase-8.

## Images



Representative standard curve from corresponding SimpleStep ELISA® Kit ([ab275098](#)).

Sandwich ELISA - Anti-Caspase-4 antibody  
[EPR22605-277] - BSA and Azide free (Capture)  
(ab275270)

Why choose a recombinant antibody?

<p><b>Research with confidence</b> Consistent and reproducible results</p>	<p><b>Long-term and scalable supply</b> Recombinant technology</p>
<p><b>Success from the first experiment</b> Confirmed specificity</p>	<p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Caspase-4 antibody [EPR22605-277] - BSA and Azide free (Capture) (ab275270)

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

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