

## Product datasheet

# Anti-Phenytoin antibody ab30517

### Overview

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<b>Product name</b>	Anti-Phenytoin antibody
<b>Description</b>	Rabbit polyclonal to Phenytoin
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab30517 recognises Dilantin: 100%.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, ICC/IF, RIA
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Phenytoin conjugated to BSA
<b>General notes</b>	<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 &amp; 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 &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; 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&amp;As.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

<b>Storage buffer</b>	Constituent: Whole serum
<b>Purity</b>	Whole antiserum
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab30517** 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
ELISA		Use at an assay dependent dilution.
ICC/IF		Use at an assay dependent dilution.
RIA		Use at an assay dependent dilution.

## Target

### Relevance

Phenytoin is an anticonvulsant drug which can be useful in the treatment of epilepsy. Phenytoin blocks voltage-sensitive sodium channels in neurons. This action leads to a delay in neuronal electrical recovery. Phenytoin's inhibitory effect is dependent on the voltage and frequency of neural cell firing by selectively blocking the neurons that are firing at high frequency. Phenytoin prevents the electrical spread of a focus of irritable tissue from entering normal tissue. Phenytoin reduces the maximal activity of brain stem centers responsible for the tonic phase of tonic clonic (grand mal) seizures. Chemical formula: 5,5-diphenyl-2,4-imidazolidinedione.

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

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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