

## Product datasheet

# Anti-Casein antibody [F20.14] ab47972

★★★★★ 1 Abreviews 2 References 1 Image

### Overview

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<b>Product name</b>	Anti-Casein antibody [F20.14]
<b>Description</b>	Mouse monoclonal [F20.14] to Casein
<b>Host species</b>	Mouse
<b>Specificity</b>	<p>This antibody reacts with beta-casein. The reactivity with alpha-casein has not been tested.</p> <p>This antibody does not react with alpha lactalbumin. This antibody can be used as an in vitro marker of terminally differentiated breast luminal epithelial cells.</p>
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Full length protein (Human)
<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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Protein A/G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	F20.14
<b>Myeloma</b>	x63-Ag8.653
<b>Isotype</b>	IgG1

## Applications

Our [Abpromise guarantee](#) covers the use of **ab47972** in the following tested applications.

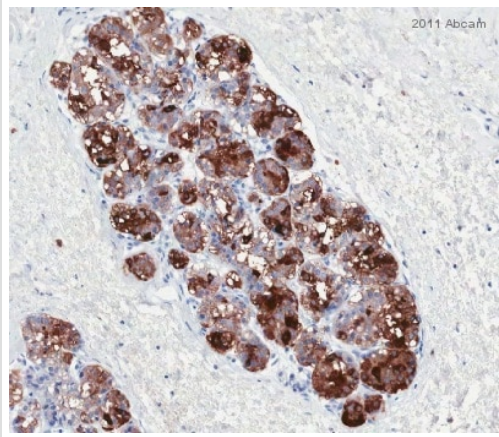
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★	Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 28 kDa (predicted molecular weight: 22 kDa).
IHC-Fr		Use at an assay dependent concentration. Fix with acetone.

## Target

<b>Function</b>	Important role in the capacity of milk to transport calcium phosphate. Casoxin D acts as opioid antagonist and has vasorelaxing activity mediated by bradykinin B1 receptors.
<b>Tissue specificity</b>	Mammary gland specific. Secreted in milk.
<b>Sequence similarities</b>	Belongs to the alpha-casein family.
<b>Post-translational modifications</b>	Not glycosylated.
<b>Cellular localization</b>	Secreted.

## Images



ab47972 staining Casein in Human lactating breast tissue biopsy by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded tissue sections). The sections were fixed in paraformaldehyde and subjected to heat-mediated antigen retrieval in citrate buffer (pH 6.0) prior to blocking with 1% normal serum containing 0.05% Tween for 30 minutes at room temperature. The primary antibody was diluted 1/100 and incubated with the sample for 1 hour. A biotin-conjugated Donkey anti-Mouse IgG was used as the secondary antibody, diluted 1/250.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Casein antibody [F20.14] (ab47972)

This image is courtesy of an Anonymous Abreview.

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

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