

## Product datasheet

# Anti-CD55 antibody [3D5] ab180546

## 1 References

### Overview

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<b>Product name</b>	Anti-CD55 antibody [3D5]
<b>Description</b>	Rat monoclonal [3D5] to CD55
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue, cells or virus corresponding to Mouse CD55. NRK cells expressing transmembrane-anchored mouse complement decay accelerating factor Database link: <a href="#">Q61476</a>

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

### 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). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituents: 0.1% BSA, 99% PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3D5
<b>Isotype</b>	IgG2a

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab180546 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		Use at an assay dependent concentration. <b>ab18450</b> - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration.

## Target

### Function

This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade.

### Tissue specificity

Expressed on the plasma membranes of all cell types that are in intimate contact with plasma complement proteins. It is also found on the surfaces of epithelial cells lining extracellular compartments, and variants of the molecule are present in body fluids and in extracellular matrix.

### Sequence similarities

Belongs to the receptors of complement activation (RCA) family.  
Contains 4 Sushi (CCP/SCR) domains.

### Domain

The first Sushi domain (SCR1) is not necessary for function. SCR2 and SCR4 provide the proper conformation for the active site on SCR3.

### Post-translational modifications

The Ser/Thr-rich domain is heavily O-glycosylated.

### Cellular localization

Cell membrane.

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

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