

Anti-DR1 antibody ab88597

[3 References](#) [7 Images](#)

Overview

Product name	Anti-DR1 antibody
Description	Mouse polyclonal to DR1
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant full length protein within Human DR1. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.
Positive control	WB: PC12, Raw 264.7, Jurkat, NIH/3T3 and HeLa nuclear cell lysates; DR1 transfected 293T cell lysate; ICC/IF: HeLa cells.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab88597 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
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 20 kDa (predicted molecular weight: 20 kDa).
ICC/IF		Use a concentration of 10 µg/ml.

Target

Function

The association of the DR1/DRAP1 heterodimer with TBP results in a functional repression of both activated and basal transcription of class II genes. This interaction precludes the formation of a transcription-competent complex by inhibiting the association of TFIIA and/or TFIIB with TBP. Can bind to DNA on its own. Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4.

Sequence similarities

Belongs to the NC2 beta/DR1 family.
Contains 1 histone-fold domain.

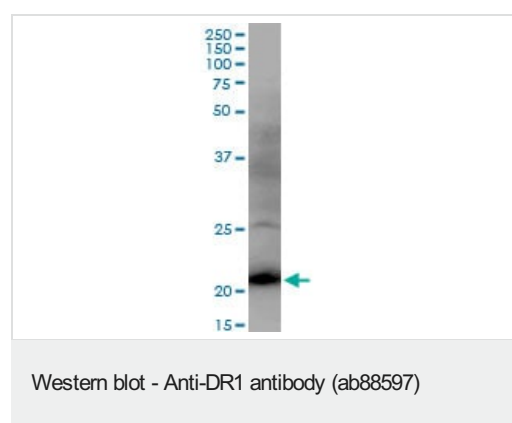
Post-translational modifications

Phosphorylation regulates its interaction with TBP. Not phosphorylated when bound to DRAP1.

Cellular localization

Nucleus.

Images

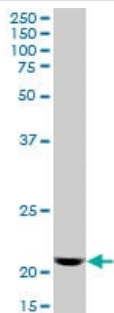


Anti-DR1 antibody (ab88597) at 1 µg/ml + PC12 cell lysate at 50 µg

Predicted band size: 20 kDa

Observed band size: 20 kDa

Additional bands at: 26 kDa. We are unsure as to the identity of these extra bands.

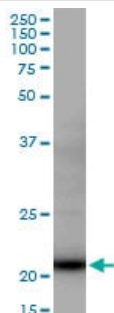


Western blot - Anti-DR1 antibody (ab88597)

Anti-DR1 antibody (ab88597) at 1 µg/ml + HeLa nuclear cell lysate at 50 µg

Predicted band size: 20 kDa

Observed band size: 20 kDa

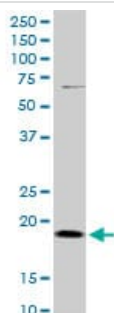


Western blot - Anti-DR1 antibody (ab88597)

Anti-DR1 antibody (ab88597) at 1 µg/ml + Raw 264.7 cell lysate at 50 µg

Predicted band size: 20 kDa

Observed band size: 20 kDa



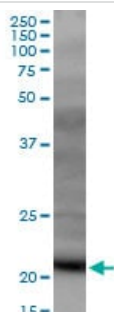
Western blot - Anti-DR1 antibody (ab88597)

Anti-DR1 antibody (ab88597) at 1 µg/ml + Jurkat cell lysate at 50 µg

Predicted band size: 20 kDa

Observed band size: 20 kDa

Additional bands at: 65 kDa. We are unsure as to the identity of these extra bands.

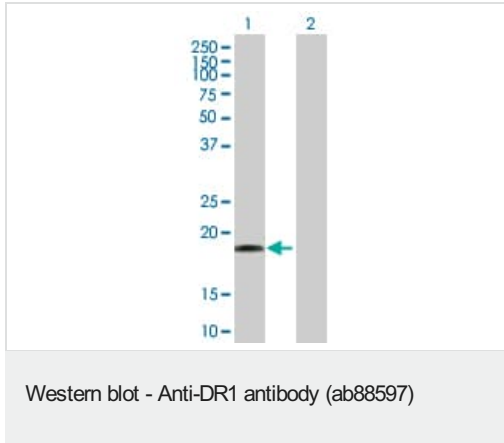


Western blot - Anti-DR1 antibody (ab88597)

Anti-DR1 antibody (ab88597) at 1 µg/ml + NIH3T3 cell lysate at 50 µg

Predicted band size: 20 kDa

Observed band size: 20 kDa



All lanes : Anti-DR1 antibody (ab88597) at 1 µg/ml

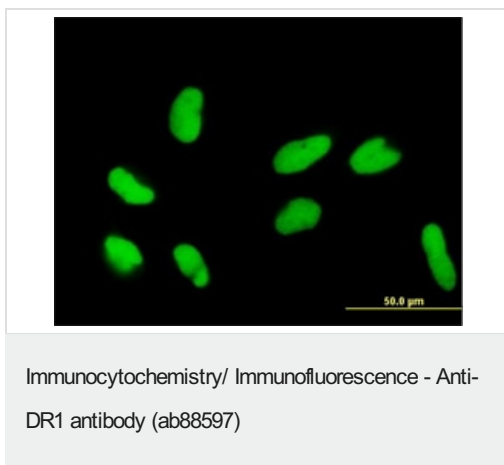
Lane 1 : DR1 transfected 293T lysate

Lane 2 : Non-transfected lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 20 kDa

Observed band size: 20 kDa



ab88597 at 10µg/ml staining DR1 in HeLa cells by Immunofluorescence.

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