



Product datasheet

Anti-CD74 antibody [2D1B3] - N-terminal ab181465

5 Images

Overview

Product name	Anti-CD74 antibody [2D1B3] - N-terminal
Description	Mouse monoclonal [2D1B3] to CD74 - N-terminal
Host species	Mouse
Tested applications	Suitable for: ICC/IF, Flow Cyt, WB
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant fragment corresponding to Human CD74 aa 1-106 (N terminal). Expressed in E.coli.</p> <p>Sequence:</p> <p>MHRRRSRSCR EDQKPVMDQ RDLISNNEQL PMLGRRPGAP ESKCSRGALY TGFSILVTLL LAGQATTAYF LYQQQGRLDK LTVTSQNLQL ENLRMKLPKP PKPVSK</p> <p>Database link: P04233</p> <p style="text-align: right;"> Run BLAST with  Run BLAST with</p>
Positive control	CD74 recombinant protein, CD74 (amino acids: 1-106)-hlgGfC transfected HEK293 cell lysate, Raji cell lysate, HeLa cells, Jurkat cells.
General notes	<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 & 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 & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & 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,</p>

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&As.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 99% PBS 0.5% protein stabilizer consisting of amino acid =85% pH(1% water solution) =7.0~7.5 Water =2% As(mg/kg) =0.5 Pb(mg/kg) =0.1
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	2D1B3
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab181465** in the following tested applications.

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

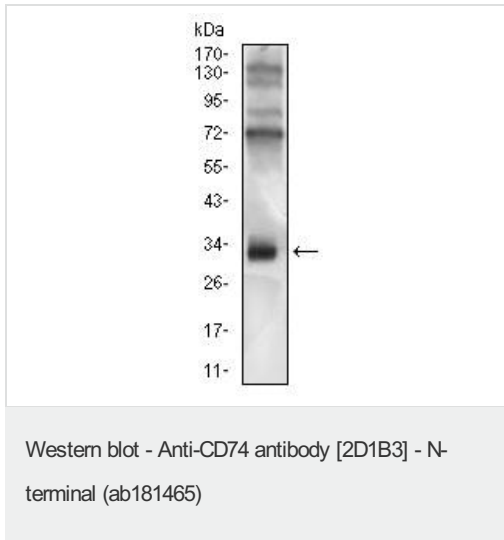
Application	Abreviews	Notes
ICC/IF		1/200 - 1/1000.
Flow Cyt		1/200 - 1/400. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Predicted molecular weight: 34 kDa.

Target

Function	Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal/lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. Serves as cell surface receptor for the cytokine MIF.
Sequence similarities	Contains 1 thyroglobulin type-1 domain.
Cellular localization	Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus > trans-Golgi network. Endosome. Lysosome. Transits through a number of intracellular compartments in the endocytic

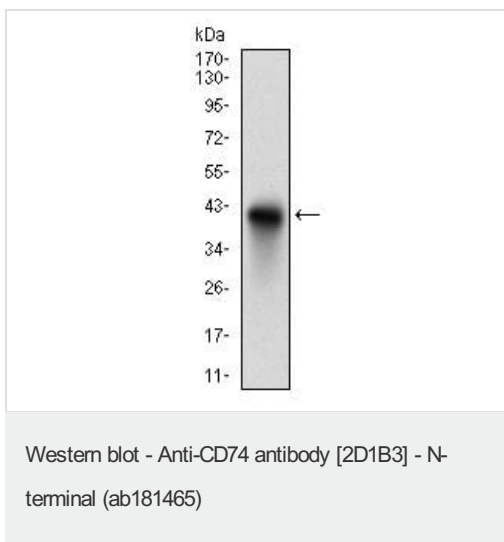
pathway. It can either undergo proteolysis or reach the cell membrane.

Images



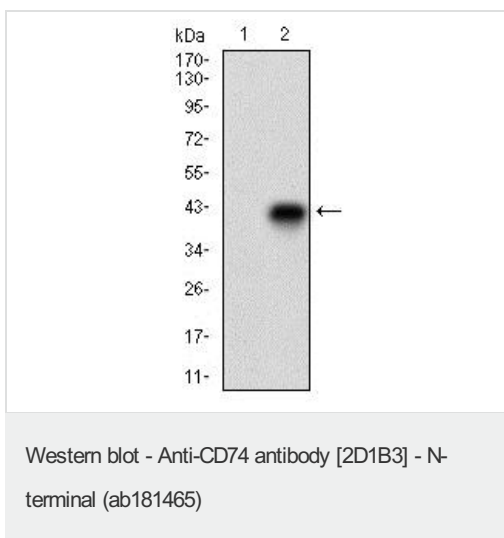
Raji cell line lysate with Anti-CD74 antibody [2D1B3] - N-terminal (ab181465) at 1/500 dilution

Predicted band size: 34 kDa



Anti-CD74 antibody [2D1B3] - N-terminal (ab181465) at 1/500 dilution + Human CD74 recombinant protein

Predicted band size: 34 kDa

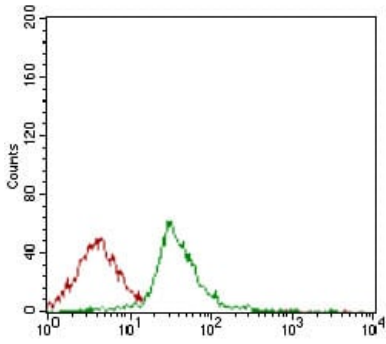


All lanes : Anti-CD74 antibody [2D1B3] - N-terminal (ab181465) at 1/500 dilution

Lane 1 : HEK293 cell lysate

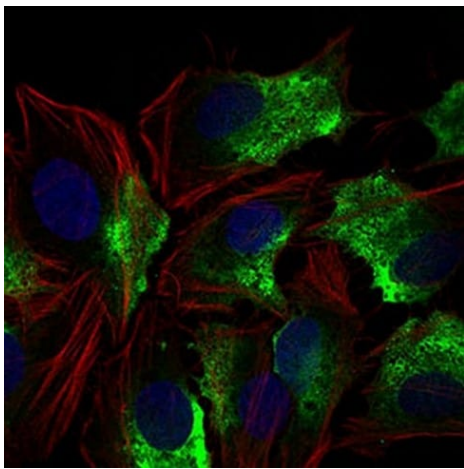
Lane 2 : CD74 (amino acids: 1-106)-hlgGfc transfected HEK293 cell lysate

Predicted band size: 34 kDa



Flow Cytometry - Anti-CD74 antibody [2D1B3] - N-terminal (ab181465)

Flow cytometric analysis of Jurkat cells labeling CD74 with ab181465 at 1/200 dilution (green) and negative control (red).



Immunocytochemistry/ Immunofluorescence - Anti-CD74 antibody [2D1B3] - N-terminal (ab181465)

Immunofluorescence analysis of HeLa cells labeling CD74 using ab181465 at 1/200 dilution (green). Blue: DRAQ5 fluorescent DNA dye.

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

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