


## Product datasheet

# Anti-CD1d antibody [NOR3.2 (NOR3.2/13.17)] - BSA and Azide free ab238657

Recombinant

2 Images

### Overview

Product name	Anti-CD1d antibody [NOR3.2 (NOR3.2/13.17)] - BSA and Azide free
Description	Mouse monoclonal [NOR3.2 (NOR3.2/13.17)] to CD1d - BSA and Azide free
Host species	Mouse
Tested applications	<b>Suitable for:</b> IHC-P, Flow Cyt (Intra)
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Sheep 
Immunogen	Fusion protein corresponding to Human CD1d.
Positive control	IHC-P: Human skin tissue. Flow Cyt (Intra): MOLT4 cells.
General notes	<p>ab238657 is the carrier-free version of <a href="#">ab11076</a>.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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</p>

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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	NOR3.2 (NOR3.2/13.17)
<b>Myeloma</b>	NS0
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

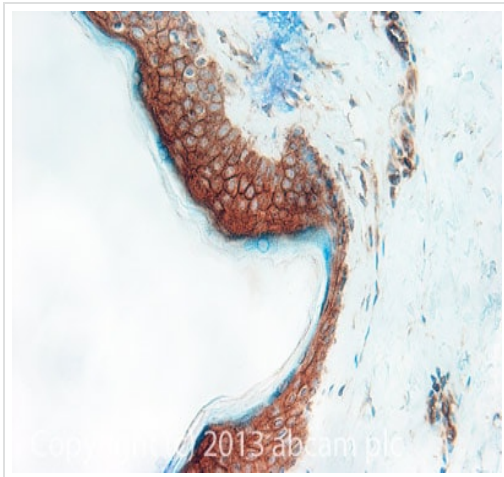
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab238657 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use 1µg for 10 <sup>6</sup> cells. <b><u>ab170190</u></b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	Antigen-presenting protein that binds self and non-self glycolipids and presents them to T-cell receptors on natural killer T-cells.
<b>Tissue specificity</b>	Expressed on cortical thymocytes, on certain T-cell leukemias, and in various other tissues.
<b>Sequence similarities</b>	Contains 1 Ig-like (immunoglobulin-like) domain.
<b>Cellular localization</b>	Cell membrane. Endosome membrane. Lysosome membrane. Subject to intracellular trafficking between the cell membrane, endosomes and lysosomes.

## Images

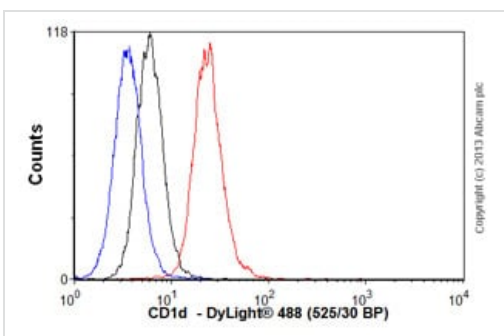


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD1d antibody [NOR3.2 (NOR3.2/13.17)] - BSA and Azide free (ab238657)

IHC image of CD1d staining in human normal skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond<sup>TM</sup> system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with EDTA based pH 9.0 solution (epitope retrieval solution 2) for 20 mins. The section was then incubated with **ab11076**, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

This image was produced using the same antibody clone but in a different formulation; PBS, arginine and sodium azide (**ab11076**).



Flow Cytometry (Intracellular) - Anti-CD1d antibody [NOR3.2 (NOR3.2/13.17)] - BSA and Azide free (ab238657)

Overlay histogram showing MOLT4 cells stained with **ab11076** (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (**ab11076**, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight<sup>®</sup> 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabeled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This image was produced using the same antibody clone but in a different formulation; PBS, arginine and sodium azide (**ab11076**).

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

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