abcam

## ab234231

# PE Anti-DR3/LARD antibody [JD3]

Anti-DR3/LARD antibody [JD3] conjugated to PE - suitable for flow cytometry, and reacts with human samples. Clone [JD3] is a mouse monoclonal antibody cited in 7 publications.

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## Key facts

| | |
|---|---|
| **Isotype** | IgG1 |
| **Host species** | Mouse |
| **Conjugation** | PE |
| **Excitation/Emission** | Ex: 480;565nm, Em: 578nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.0975% Sodium azide Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Recombinant Full Length Protein corresponding to Human TNFRSF25. The exact immunogen used to generate this antibody is proprietary information. Database link Q93038 |
| **Clone number** | JD3 |
| **Purification technique** | Size-exclusion chromatography |
| **Purification notes** | ab234231 is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. |

## Reactivity data

## Flow Cyt

### Tested

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| **Species** | Human |
| **Dilution info** | 10 µL for $10^6$ Cells |
| **Notes** | - |

## Target data

See full target information TNFRSF25

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| **Function** | Receptor for TNFSF12/APO3L/TWEAK. Interacts directly with the adapter TRADD. Mediates activation of NF-kappa-B and induces apoptosis. May play a role in regulating lymphocyte homeostasis. |

## Storage

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| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Store in the dark |

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

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| **Activity summary** | The DR3 receptor also known as LARD (Lymphocyte Apoptosis-Related Receptor Domain) is a member of the TNF receptor superfamily. This protein also referred to as the DR3 protein or LARD protein is involved in mediating apoptotic signals. DR3 is expressed predominantly in lymphoid tissues and plays an important role in immune system regulation. DR3 protein has an approximate mass of 65 kDa. Scientists study DR3 in various models including cyno RNA and protein monkey models to gain better understanding of its function and expression. |
| **Biological function summary** | DR3 functions significantly in the immune response by modulating apoptosis. It forms part of a complex with other proteins leading to the activation of signaling pathways that result in cell death. The binding of its ligand TL1A to DR3 initiates a series of downstream effects that influence T-cell and other immune cell activities. LARD target has a functional correlation with the regulation of immune response and the maintenance of homeostasis in immune cell populations. |
| **Pathways** | DR3 receptor mediates signals primarily in two significant pathways: the NF-kB pathway and the MAPK pathway. These pathways play a role in transducing signals |

| | |
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| | that lead to inflammation and immune responses. DR3 interacts with other proteins such as TRADD and RIPK1 facilitating the propagation of signals through these pathways. The engagement of DR3 in these pathways highlights its regulatory influence over immune cell survival and function. |
| **Associated diseases and disorders** | DR3 plays an important role in autoimmune diseases and inflammatory disorders. Dysregulation of DR3 receptor and its signaling pathways can contribute to conditions like rheumatoid arthritis and inflammatory bowel disease. There is a notable connection between dysfunction in DR3 signaling and altered interactions with pro-inflammatory proteins such as TNF-alpha which can exacerbate these conditions. Understanding DR3's role helps in developing therapeutic approaches to manage these disorders. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

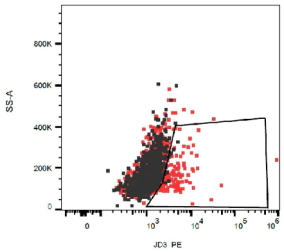
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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## 1 product image




# Flow Cytometry - PE Anti-DR3/LARD antibody [JD3] (ab234231)

DR3/LARD Flow Cytometry staining using mouse Anti-DR3/LARD antibody

Flow Cytometry analysis of DR3/LARD-transfected (red) and non-transfected HEK-293 (human epithelial cell line from embryonic kidney) (black) cells labeling DR3/LARD with ab234231. Surface staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.