# Rat DECTIN-2 Monoclonal Antibody | anti-DECTIN-2 antibody

RAT ANTI MOUSE DECTIN-2

| CATALOG # | HOST | APPLICATIONS |
|---|---|---|
| **AAA49674** | **Rat** | **Immunoprecipitation, Flow Cytometry, Functional Assay, Immunohistochemistry** |

## PRODUCT SYNONYMS

DECTIN-2; Monoclonal Antibody; RAT ANTI MOUSE DECTIN-2; anti-DECTIN-2 antibody

## PRODUCT SPECIFICATIONS

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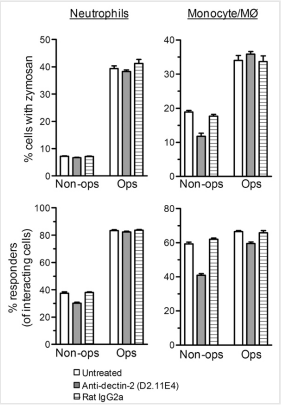
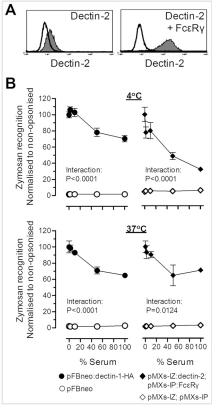
|---|---|
| **Host** | Rat |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a |
| **Clone Number** | D2.11E4 |
| **Form/Format** | Purified<br>Purified IgG - liquid |
| **Concentration** | IgG concentration 1.0 mg/ml (varies by lot) |
| **Sequence Length** | 175 |
| **Applicable Applications for anti-DECTIN-2 antibody** | IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry) |
| **Perservative Stabilisers** | 0.09% Sodium Azide<br>Preparation |
| **Immunogen** | Dectin-2 (extracellular domain) Fc Fusion protein.<br>Buffer Solution |
| **Target Species** | Mouse |
| **Preparation and Storage** | Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 18 months from date of despatch. |

## IMAGES



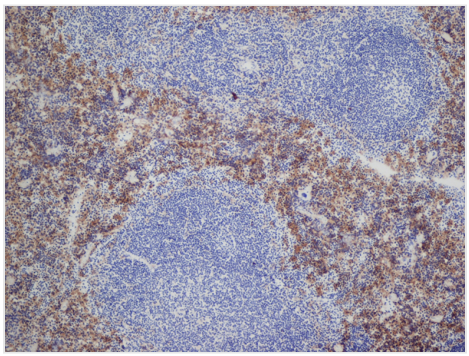

**Application Data**

Published customer image: Assessment of dectin-2 function on inflammatory cells. Assessment of the impact of blockade of dectin-2 (D2.11E4) on the recognition (upper graphs) and response to (lower graphs) zymosan of inflammatory neutrophils and monocyte/M˜. Data represents mean+/-SEM of triplicates from a representative of 3 independent experiments.From: McDonald JU, Rosas M, Brown GD, Jones SA, Taylor PR (2012) Differential Dependencies of Monocytes and Neutrophils on Dectin-1, Dectin-2 and Complement for the Recognition of Fungal Particles in Inflammation. PLoS ONE 7(9): e45781.



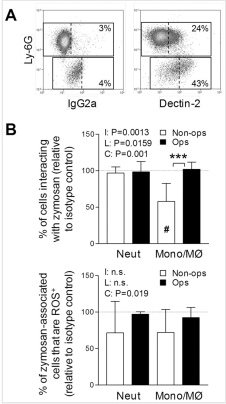

**Application Data**

Published customer image: Inhibition of dectin-1 and -2-mediated fungal recognition by prior complement opsonization. A) Representative flow cytometric plots of dectin-2 surface expression on NIH3T3 retrovirally transduced with dectin-2 (left panel) and both dectin-2 and FceR? chain (right panel). B) Serum-opsonization inhibits the recognition of zymosan by both dectin-1 and dectin-2. NIH3T3 retrovirally transduced as indicated in the legend were incubated with zymosan that had been pre-incubated with serum at increasing concentrations and the interaction was monitored by flow cytometry. Data represents the mean+/-SEM of triplicates from a representative of 2 independent experiments. Data in (D) was analyzed by two-way ANOVA, with the significant Interaction statistics demonstrating the reduced binding of zymosan to the transduced cells after prior incubation with increasing concentrations of serum.From: McDonald JU, Rosas M, Brown GD, Jones SA, Taylor PR (2012) Differential Dependencies of Monocytes and Neutrophils on Dectin-1, Dectin-2 and Complement for the Recognition of Fungal Particles in Inflammation. PLoS ONE 7(9): e45781.



**Application Data**

Mouse spleen stained wiith Rat anti Mouse Dectin-2




**Application Data**

Published customer image: Assessment of dectin-2 function on inflammatory cells. A) Flow-cytometric plots showing expression of dectin-2 on the surface of inflammatory neutrophils (Ly-6G+) and monocyte/M˜ (Ly-6G-). Data is pre-gated on Ly-6B.2+ cells and is representative of results obtained with pooled cells from 3 independent experiments. B) Assessment of the impact of blockade of dectin-2 (D2.11E4) on the recognition (upper graphs) and response to (lower graphs) zymosan of inflammatory neutrophils and monocyte/M˜ from dectin-1-deficient mice. All bars show mean+/-95% confidence intervals of dectin-2-blocked cells relative to isotype control treated cells (100%, dotted line) from 3 independent experiments (raw representative data, which includes the isotype control data, from one of the 3 independent experiments are shown in Figure S2). Data were analysed by two-way ANOVA, two assess the differences caused by complement opsonization (˜C') or the use of different cell lineages (˜L'). Samples in which the 95% confidence intervals do not overlap with the mean isotype control are specific indicated with a # symbol.From: McDonald JU, Rosas M, Brown GD, Jones SA, Taylor PR (2012) Differential Dependencies of Monocytes and Neutrophils on Dectin-1, Dectin-2 and Complement for the Recognition of Fungal Particles in Inflammation. PLoS ONE 7(9): e45781.

## ADDITIONAL INFORMATION

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|---|---|
| **Related Product Information for anti-DECTIN-2 antibody** | Rat anti Mouse Dectin-2 antibody, clone D2.11E4 recognizes mouse DC-associated C-type lectin-2 (Dectin-2), a type II transmembrane protein that is a member of the C-type lectin superfamily. In mouse, dectin-2 is predominantly expressed on tissue macrophages and some dendritic cells. Clone D2.11E4 does not stain brain microglia or meningeal macrophages. Significant expression of Dectin-2 has been reported on macrophages in the red pulp and marginal zones of the spleen, kupffer cells in the liver and alveolar macrophages in the lung. Peripheral blood monocytes express low levels of dectin-2 but transient up-regulation of expression has been demonstrated on monocytes at sites of inflammation. The function of dectin-2 has not been fully determined but studies suggest a possible role in immune-surveillance. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 298358452 |
| **NCBI GeneID** | 56620 |
| **NCBI Accession #** | NP_001177250.1 |
| **NCBI GenBank Nucleotide #** | NM_001190321.1 |
| **UniProt Accession #** | Q9JKF4; Q9JKF2; Q9JKF3 |
| **Molecular Weight** | 19,332 Da |
| **NCBI Official Full Name** | C-type lectin domain family 6 member A isoform 3 |
| **NCBI Official Synonym Full Names** | C-type lectin domain family 4, member n |
| **NCBI Official Symbol** | Clec4n |
| **NCBI Official Synonym Symbols** | Nkcl; Clec6a; Clecsf10 |
| **NCBI Protein Information** | C-type lectin domain family 6 member A; C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 10; C-type lectin superfamily member 10; DC-associated C-type lectin 2; dectin-2; dendritic cell-associated C-type lectin 2; natural killer complex lectin |
| **UniProt Protein Name** | C-type lectin domain family 6 member A |
| **UniProt Gene Name** | **Clec6a** |
| **UniProt Synonym Gene Names** | Clec4n; Clecsf10; Dectin2; DC-associated C-type lectin 2; Dectin-2 |
| **UniProt Entry Name** | CLC6A_MOUSE |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/dectin-2-antibody-clone-d2-11e4-immunoprecipitation-flow-cytometry-immunohistochemistry-elisa/49674