

Product datasheet for **BM4017F**

Ly75 Rat Monoclonal Antibody [Clone ID: NLDC-145]

Product data:

| | |
|-----------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | NLDC-145 |
| Applications: | FC, IHC |
| Recommended Dilution: | Flow Cytometry: Starting dilution is 2 µg to label 10e6 cells. Suggested Positive Control: GM-CSF and IL-4 stimulated bone marrow cells. Antigen Distribution: See Table 1. |
| Reactivity: | Mouse |
| Host: | Rat |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Mouse lymph node tissue. |
| Specificity: | Reacts with nonlymphoid dendritic cells: interdigitating cells (IDC), veiled cells and Langerhans cells, thymic epithelial cells. Monoclonal antibody NLDC-145 identifies Ia positive interdigitating cells, veiled cells and Langerhans cells of the skin and their in vitro counterparts. The antigen is expressed at high levels by dendritic cells and thymic epithelial cells. The antigen detected by NLDC-145 is an integral membrane glycoprotein with an apparent mass of 205kDa, also known as DEC-205. |
| Formulation: | PBS, pH 7.2 Label: FITC State: Liquid purified IgG fraction Stabilizer: 10 mg/ml BSA Preservative: 0.09% Sodium Azide |
| Concentration: | 0.2 mg/ml |
| Purification: | Affinity Chromatography |
| Conjugation: | FITC |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |



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Gene Name: lymphocyte antigen 75

Database Link: [Entrez Gene 17076 Mouse Q60767](#)

Background: Mouse CD205, also known as DEC-205 (dendritic and epithelial cells, 205 kDa). CD205 is an integral membrane glycoprotein involved in antigen uptake, trafficking and presentation that improves the induction of antigen-specific T cell immunity. CD205 is highly expressed by CD8+ dendritic cells (DCs) and also expressed at different levels by bone marrow Gr1+ cells, Langerhans cells, (BMDC) bone marrow derived DCs and thymic epithelial cells. DEC-205 is apparently a receptor involved in antigen-processing by dendritic cells.

Synonyms: LY75, CLEC13B, DEC205, gp200-MR6

Note: **Molecular weight of antigen:** 205 kDa.

Product images:

| Organ | NLDC-145 staining | Cell type and localization |
|--------------------------------|-------------------|--|
| Spleen | + | IDC in inner PALS |
| Lymph node | + | IDC in paracortex VC in subcapsular sinus |
| Peyer's patch | + | IDC in interfollicular T cell areas Villum epithelium, isolated cells in submucosa (VC) |
| Thymus | + | IDC in medulla Cortical epithelium |
| Skin | + | Langerhans cells |
| Brain, Kidney, Liver, Heart | - | |
| In vitro isolated cells | | |
| Blood, bone marrow | - | |
| Peritoneal cells | - | |
| Peritoneal exudate cells* | + | some positive cells (VC?) |

* Peritoneal exudate cells were harvested 4 days after intraperitoneal thioglycollate injection. Tests were carried out on BALB/c and C₃D₂F₁ mouse strains. (G.Kraal et al. see ref. 1, modified)

Table 1. Antigen distribution.