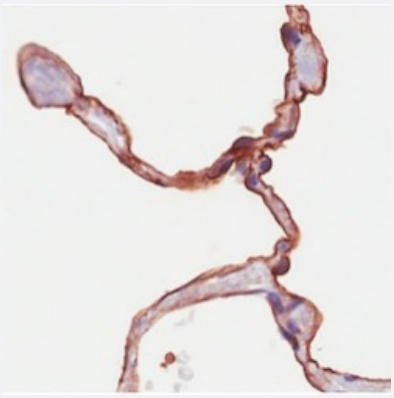
RecomAb™

# CD55 recombinant monoclonal antibody, clone LU30

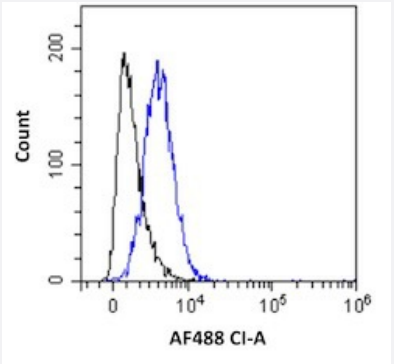
Catalog # RAB03309 Size 200 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human lung tissue with CD55 recombinant monoclonal antibody, clone LU30 (Cat # RAB03309).
Anti-CD55 (Complement decay-accelerating factor) staining of paraffin embedded human lung tissue using the rmeric version of RAB03309. Antigen retreival was acheived by microwaving in citrate buffer (pH6)- followed by blocking with protein block serum-free buffer (Dako- cat. #X0909). Primary antibody incubation with RAB03309 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-r HRP secondary antibody (Dako cat#K4009) for 20 mins followed by Ddiaminobenzidine)- and counter staining with haematoxylin. Strong staining of the epithelial surface of alveoli may be observed. Recommended concentration- 2-4 ug/ml.




### Flow Cytometry

Flow cytometric analysis of U937 cells with CD55 recombinant monoclonal antibody, clone LU30 (Cat # RAB03309).
U937 cells were stained with unimmunized r antibody (black line) or the rmeric version of RAB03309 (blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing- bound antibody was detected using an anti-r JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.

## Specification

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| **Product Description** | Rabbit recombinant monoclonal antibody raised against human CD55. |
| **Antibody Species** | Rabbit |

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| **Immunogen** | Original antibody is raised against recombinant protein corresponding to human CD55. |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Isotype** | IgG lambda |
| **Recommend Usage** | ELISA<br>Flow Cytometry<br>Immunohistochemistry<br>Western Blot<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.02% Proclin 300) |
| **Storage Instruction** | Store at 4°C for 3 months. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of human lung tissue with CD55 recombinant monoclonal antibody, clone LU30 (Cat # RAB03309).
  Anti-CD55 (Complement decay-accelerating factor) staining of paraffin embedded human lung tissue using the rmeric version of RAB03309. Antigen retreival was acheived by microwaving in citrate buffer (pH6)- followed by blocking with protein block serum-free buffer (Dako- cat. #X0909). Primary antibody incubation with RAB03309 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-r HRP secondary antibody (Dako cat#K4009) for 20 mins followed by Ddiaminobenzidine)- and counter staining with haematoxylin. Strong staining of the epithelial surface of alveoli may be observed. Recommended concentration- 2-4 ug/ml.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

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## Gene Info — CD55

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| **Entrez GeneID** | 1604 |

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|---|---|
| **Gene Name** | CD55 |
| **Gene Alias** | CR, CROM, DAF, TC |
| **Gene Description** | CD55 molecule, decay accelerating factor for complement (Cromer blood group) |
| **Omim ID** | 125240 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complemen t proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. A ntigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower le vels. Additional, alternatively spliced transcript variants have been described, but their biological v alidity has not been determined. [provided by RefSeq |
| **Other Designations** | CD55 antigen\|decay accelerating factor for complement |

## Pathway

- Complement and coagulation cascades
- Hematopoietic cell lineage

## Disease

- Asthma
- Birth Weight
- Chorioamnionitis
- Down Syndrome
- Fetal Membranes
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Leukemia

- Lymphoma
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Obstetric Labor
- Pre-Eclampsia
- Premature Birth
- Rhinitis