



# Rabbit Anti-Human CD55/DAF monoclonal antibody, clone S139 (CABT-ZB775)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Specificity</b>        | It reacts with Human CD55/DAF<br>It has no cross-reactivity in ELISA with Human CD97.                                                                                                                      |
| <b>Target</b>             | CD55                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Recombinant Human CD55 protein                                                                                                                                                                             |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                        |
| <b>Source/Host</b>        | Rabbit                                                                                                                                                                                                     |
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                      |
| <b>Clone</b>              | S139                                                                                                                                                                                                       |
| <b>Purification</b>       | Protein A purified                                                                                                                                                                                         |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                                               |
| <b>Applications</b>       | ELISA, ELISA(cap), FC, ICC/IF<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB775 - CABT-ZB1081<br>This antibody will detect CD55/DAF in antibody pair set. [ABPR-ZB355] |
| <b>Preparation</b>        | This antibody was obtained from a rabbit immunized with purified, recombinant Human CD55 / DAF.                                                                                                            |
| <b>Format</b>             | Purified, Liquid                                                                                                                                                                                           |
| <b>Concentration</b>      | Lot specific                                                                                                                                                                                               |

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| <b>Size</b>         | 50 µL, 100 µL, 1 mL                                                                                                                                                                                                                                |
| <b>Buffer</b>       | PBS                                                                                                                                                                                                                                                |
| <b>Preservative</b> | None                                                                                                                                                                                                                                               |
| <b>Storage</b>      | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| <b>Ship</b>         | Wet ice                                                                                                                                                                                                                                            |

## BACKGROUND

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| <b>Introduction</b> | CD55, also well known as decay-accelerating factor (DAF), is a member of the RCA (regulators of complement activation) family characterized by four to 30 SCRs (short consensus repeats) in their plasma-exposed regions. It is a major regulator of the alternative and classical pathways of complement activation and is expressed on all serum-exposed cells. CD55 is physiologically acting as an inhibitor of the complement system, but is also broadly expressed in malignant tumours. DAF seems to exert different functions beyond its immunological role such as promotion of tumorigenesis, decrease of complement mediated tumor cell lysis, autocrine loops for cell rescue and evasion of apoptosis, neoangiogenesis, invasiveness, cell motility. It is commonly hijacked by invading pathogens, including many enteroviruses and uropathogenic Escherichia coli, to promote cellular attachment prior to infection. This 70-75 kDa glycoprotein CD55 containing four SCR modules is involved in the regulation of the complement cascade. It inhibits complement activation by suppressing the function of C3/C5 convertases, thereby limiting local generation or deposition of C3a/C5a and membrane attack complex (MAC or C5b-9) production. DAF has been identified as a ligand for an activation-associated, seven-transmembrane lymphocyte receptor, CD97, which is a receptor mediating attachment and infection of several viruses and bacteria. In addition, it has been shown that DAF regulates the interplay between complement and T cell immunity in vivo, and thus may be implicated in immune and tumor biology. |
| <b>Keywords</b>     | CD55; CD55 molecule, decay accelerating factor for complement (Cromer blood group); CR; TC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## GENE INFORMATION

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | CD55; CD55 molecule, decay accelerating factor for complement (Cromer blood group); CR; TC; DAF; CROM; complement decay-accelerating factor; CD55 antigen |
| <b>Entrez Gene ID</b> | <a href="#">1604</a>                                                                                                                                      |
| <b>UniProt ID</b>     | <a href="#">P08174</a>                                                                                                                                    |