

CD55 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14798a**Specification**

CD55 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P08174](#)**CD55 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1604**Other Names**

Complement decay-accelerating factor, CD55, CD55, CR, DAF

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD55 Antibody (N-term) Blocking Peptide - Protein Information**Name** CD55**Synonyms** CR, DAF**Function**

This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade (PubMed:7525274). Inhibits complement activation by destabilizing and preventing the formation of C3 and C5 convertases, which prevents complement damage (PubMed:28657829).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Secreted [Isoform 5]: Secreted [Isoform 7]: Cell membrane; Lipid-anchor, GPI-anchor

Tissue Location

Expressed on the plasma membranes of all cell types that are in intimate contact with plasma

complement proteins. It is also found on the surfaces of epithelial cells lining extracellular compartments, and variants of the molecule are present in body fluids and in extracellular matrix

CD55 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CD55 Antibody (N-term) Blocking Peptide - Images

CD55 Antibody (N-term) Blocking Peptide - Background

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 complement proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. Antigens 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 levels. Additional, alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq].

CD55 Antibody (N-term) Blocking Peptide - References

Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) ;Gustafsson, D.J., et al. Virology 405(2):474-482(2010) Alegretti, A.P., et al. Cell. Immunol. 265(2):127-132(2010) Kim, Y., et al. Ann. Clin. Lab. Sci. 40(3):226-232(2010) Storry, J.R., et al. Transfusion 43(3):340-344(2003)