

CD46 Blocking Peptide (Center Y354)
Synthetic peptide
Catalog # BP20516c**Specification**

CD46 Blocking Peptide (Center Y354) - Product InformationPrimary Accession [P15529](#)**CD46 Blocking Peptide (Center Y354) - Additional Information****Gene ID** 4179**Other Names**

Membrane cofactor protein, TLX, Trophoblast leukocyte common antigen, CD46, CD46, MCP, MIC10

Target/Specificity

The synthetic peptide sequence is selected from aa 350-361 of Human CD46

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.

CD46 Blocking Peptide (Center Y354) - Protein Information**Name** CD46**Synonyms** MCP, MIC10**Function**

Acts as a cofactor for complement factor I, a serine protease which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. May be involved in the fusion of the spermatozoa with the oocyte during fertilization. Also acts as a costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity.

Cellular Location

Cytoplasmic vesicle, secretory vesicle, acrosome inner membrane; Single-pass type I membrane protein. Note=Inner acrosomal membrane of spermatozoa. Internalized upon binding of Measles virus, Herpesvirus 6 or Neisseria gonorrhoeae, which results in an increased susceptibility of infected cells to complement-mediated injury. In cancer cells or cells infected by Neisseria,

shedding leads to a soluble peptide

Tissue Location

Expressed by all cells except erythrocytes.

CD46 Blocking Peptide (Center Y354) - Protocols

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

- [Blocking Peptides](#)

CD46 Blocking Peptide (Center Y354) - Images**CD46 Blocking Peptide (Center Y354) - Background**

Acts as a cofactor for complement factor I, a serine protease which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. May be involved in the fusion of the spermatozoa with the oocyte during fertilization. Also acts as a costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity. A number of viral and bacterial pathogens seem to exploit this property and directly induce an immunosuppressive phenotype in T-cells by binding to CD46.

CD46 Blocking Peptide (Center Y354) - References

Riley R.C., et al. Mol. Reprod. Dev. 62:534-546(2002).
Lublin D.M., et al. J. Exp. Med. 168:181-194(1988).
Purcell D.F., et al. Immunogenetics 33:335-344(1991).
Post T.W., et al. J. Exp. Med. 174:93-102(1991).
Cervoni F., et al. Mol. Reprod. Dev. 34:107-113(1993).