CD46 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700681
Synonyms:	TLX; CD46; MCP; MIC10; AHUS2; TRA2.10
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5WCS2 (C35-D329)
Gene ID:	102146832
Molecular Weight:	50-70 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus CD46, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-CD46 Antibody, hFc Tag with the EC_{50} of 0.67μg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD46 protein serves as a crucial cofactor for complement factor I, a serine protease responsible for safeguarding autologous cells against complement-mediated damage by cleaving deposited C3b and C4b on host tissue. Beyond its role in complement regulation, CD46 is implicated in the fusion process between spermatozoa and oocytes during fertilization. Additionally, CD46 acts as a costimulatory factor for T-cells, facilitating the differentiation of CD4+ cells into T-regulatory 1 cells. These specialized T-regulatory 1 cells contribute to immune modulation by secreting interleukin-10, thereby playing a pivotal role in suppressing immune responses and preventing autoimmunity.

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