

## CD46 Protein, Human (HEK293, hFc)

<b>Cat. No.:</b>	HY-P72020
<b>Synonyms:</b>	AHUS2; Antigen defined by monoclonal TRA 2 10; Antigen identified by monoclonal TRA 2 10; CD46; TRA2.10
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P15529 (C35-Y328)
<b>Gene ID:</b>	4179
<b>Molecular Weight:</b>	Approximately 70.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> C E E P P T F E A M   E L I G K P K P Y Y   E I G E R V D Y K C   K K G Y F Y I P P L A T H T I C D R N H   T W L P V S D D A C   Y R E T C P Y I R D   P L N G Q A V P A N G T Y E F G Y Q M H   F I C N E G Y Y L I   G E E I L Y C E L K   G S V A I W S G K P P I C E K V L C T P   P P K I K N G K H T   F S E V E V F E Y L   D A V T Y S C D P A P G P D P F S L I G   E S T I Y C G D N S   V W S R A A P E C K   V V K C R F P V V E N G K Q I S G F G K   K F Y Y K A T V M F   E C D K G F Y L D G   S D T I V C D S N S T W D P P V P K C L   K V L P P S S T K P   P A L S H S V S T S   S T T K S P A S S A S G P R P T Y K P P   V S N Y           </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized CD46 at 2 µg/mL can bind Anti-CD46 rabbit monoclonal antibody, the EC <sub>50</sub> of human CD46 protein is 0.8-1.38 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of PBS, 6% Trehalose, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	CD46 Protein acts as a cofactor for complement factor I, protecting cells from complement-mediated injury by cleaving C3b and C4b on host tissue. It also plays a role in sperm-oocyte fusion during fertilization and acts as a costimulatory factor for
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T-cells, promoting the differentiation of CD4+ cells into T-regulatory 1 cells. These T-regulatory 1 cells suppress immune responses by secreting interleukin-10, thus preventing autoimmunity. In the context of microbial infection, certain viral and bacterial pathogens exploit CD4's immune regulation properties by binding to it and inducing an immunosuppressive phenotype in T-cells.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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