



BMA BIOMEDICALS



Peninsula Laboratories

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**S-1340**

## **Complement 5a (human) ELISA**

Complement 5a contains polypeptide 74 amino acids and has 11kDa. It is a protein fragment released from cleavage of complement component C5 by protease C5-convertase into C5a and C5b fragments. Complement 5a is an anaphylatoxin, causing increased expression of adhesion molecules on endothelium, contraction of smooth muscle, and increased vascular permeability. It is also an effective chemoattractant, initiating accumulation of complement and phagocytic cells at sites of infection or recruitment of antigen-presenting cells to lymph nodes, and it plays a key role in increasing migration and adherence of neutrophils and monocytes to vessel walls.

This ELISA was developed with serum from rabbits immunized with Complement 5a coupled to a carrier protein.

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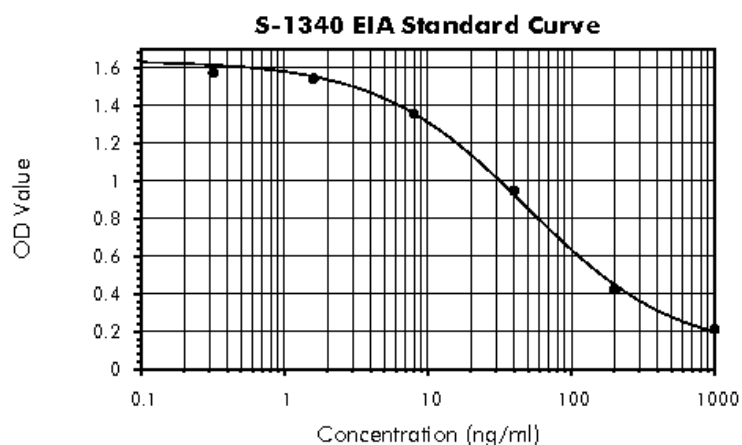
### **TECHNICAL AND ANALYTICAL CHARACTERISTICS**

<b>Lot number:</b>	A02888
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Formulated for extracted samples (EIAH type).
<b>Shelf-life:</b>	One year from production date. Store refrigerated at 4° - 8°C.
<b>Applications:</b>	This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Range:</b>	0-1000ng/ml
<b>Average IC50:</b>	45ng/ml

#### **Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%:</b>
Complement 5a (human)	100
Complement 5a (37-53) (human)	0
LL-37	0

Typical titration curve of Complement 5a in a competitive ELISA with this antibody:



<b>Suggested Preparation of Standards</b>		
	ng/ml	Range: 0.98 to 1000ng/ml
<b>Stock</b>	1000	
<b>S1</b>	1000.00	Add 225µl Stock + 0µl diluent
<b>S2</b>	250.00	Add 100µl S1 + 300µl diluent
<b>S3</b>	62.50	Add 100µl S2 + 300µl diluent
<b>S4</b>	15.63	Add 100µl S3 + 300µl diluent
<b>S5</b>	3.91	Add 100µl S4 + 300µl diluent
<b>S6</b>	0.98	Add 100µl S5 + 300µl diluent
<b>S0</b>	0.00	500µl diluent

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This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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EIAH

1.3.2021