

## Anti-Factor XII (human, heavy chain)

CAT. NO. CAM 011-05

### OVERVIEW

<b>Product Name</b>	Anti-Factor XII (human, heavy chain)	<b>Conjugation</b>	Unconjugated
<b>Description</b>	Mouse monoclonal antibody	<b>Host</b>	Mouse
<b>Isotype</b>	IgG1/k	<b>Clone</b>	10-11-5
<b>Tested Applications</b>	ELISA, WB		

### SPECIFICITY

<b>Specificity</b>	CAM 011-05 binds the heavy chain of human factor XII, including factor XII derivatives such as $\alpha$ -factor XIIa and $\alpha$ -factor XIIa C1-inhibitor complexes. Differs from CAM 011-37.		
<b>Immunogen</b>	Affinity purified human factor XII.	<b>Gene ID</b>	2161
<b>Target</b>	Factor XII is a component in the coagulation cascade. It is a plasma glycoprotein that participates in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves factor XII to $\alpha$ -factor XIIa, which in turn activates factor XI to factor XIa.		
<b>Species Reactivity POSITIVE</b>	Human	<b>Species Reactivity NEGATIVE</b>	Not determined

### PROPERTIES

<b>Form</b>	Liquid	<b>Unit Size</b>	0,4 mL and 1 mL
<b>Concentration</b>	1 mg/mL $\pm$ 15%, See CoA for lot details		
<b>Purification</b>	Protein A or Protein G purified	<b>Purification Notes</b>	BSA free
<b>Storage buffer</b>	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
<b>Storage condition</b>	2-8°C without exposure to light		
<b>Safety</b>	Wear protective clothing		

### TESTED APPLICATIONS

<b>ELISA</b>	CAM 011-05 was used in ELISA. Biotinylated CAM 011-05 (1 $\mu$ g/mL) was used as a detection antibody when used in combination with CAM 011-37 as a capture antibody (1.6 $\mu$ g/mL) to measure Total $\alpha$ -factor XIIa and $\alpha$ -factor XIIa C1-inhibitor complexes). (1)
<b>WB</b>	CAM 011-05 was used in western blot to detect factor XII, $\alpha$ -factor XIIa C1-inh complexes and $\alpha$ -factor XIIa.

### SCIENTIFIC REFERENCES

- Madsen DE, Sidemann J, Overgaard K, Koch C, Brodersen Gram J (2013) ELISA for determination of total coagulation factor XII concentration in human plasma. J Imm Meth 394:32–9.

#### CONDITIONS

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