

Anti-Complement component C1s, (human, pro- and activated enzyme)

CAT. NO. ABS 002-09

OVERVIEW

Product Name	Anti-Complement component C1s, (human, pro- and activated enzyme)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	9
Tested Applications	ELISA, IHC		

SPECIFICITY

Specificity	ABS 002-09 is specific for C1s proenzyme and activated free C1s. Epitope differs from that of ABS 002-49.		
Immunogen	C1s proenzyme purified from human plasma	Gene ID	716
Target	C1s proenzyme is a 79.8 kDa glycoprotein produced primarily by hepatocytes but also by other cells. The proenzyme is produced as a single-chain polypeptide of 688 aa. Upon activation the peptide is cleaved between R437 and I438 giving the activated enzyme consisting of two disulfide-linked chains, A chain (52.2 kDa) and B chain (27.7 kDa). The Ca-dependent catalytic subunit of the C1 complex (C1q, C1r, C1s) comprises of two C1s and two C1r molecules and this serine protease tetramer is responsible for the initial steps in the classical complement pathway, cleavage of C4 and C2.		
Species Reactivity	Human	Species Reactivity	Not determined
POSITIVE		NEGATIVE	

PROPERTIES

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

TESTED APPLICATIONS

ELISA	ABS 002-09 reacts in ELISA when tested with activated C1s enzyme directly coated onto the microtiter well or in sandwich ELISA in combination with a polyclonal antibody in coat.
IHC	ABS 002-09 was used in immunohistochemistry.

SCIENTIFIC REFERENCES

N/A

CONDITIONS

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