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Datasheet for ABIN458009 anti-F12 antibody

Publication



#### Overview

Quantity:	1 mL
Target:	F12
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This F12 antibody is un-conjugated
Application:	Immunoprecipitation (IP), Immunoelectrophoresis (IEP)

## Product Details

Immunogen:	Factor XII (Hageman factor) is a single chain glycoprotein (MW 80,000). It is a serine protease
	zymogen. FXII is converted to an active enzyme by damage to vascular endothelium. In vitro
	activation is caused by glass or kaolin. Surface binding promotes activation by kallikrein. FXIIa
	activates prekallikrein and FXI. Kallikrein activates more FXII. Fragments of FXIIa activate FVII
	to FVIIa, and plasminogen to plasmin. The complement system is also activated by FXIIa. A link
	between fibrin clot and the subendothelium is formed by FXIIa cross-linking with fibrin, alpha-2
	plasmin inhibitor, fibronectin and Van Willebrand factor. Purified plasma FXII is used as
	immunogen. Freund's complete adjuvant is used in the first step of the immunization
	procedure.
Isotype:	lgG
Specificity:	The antiserum does not cross-react with any other human plasma proteins as tested in gel-
	diffusion techniques. Inter-species cross-reactivity is a normal feature of antibodies to plasma
	proteins, since homologous proteins of different species frequently share antigenic

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	determinants. of this antiserum has not been tested in detail, however in immunoelectrophoresi
	s a reaction with Rhesus monkey plasma has been found.
Characteristics:	Precipitating polyclonal goat antiserum to human coagulation Factor XII
Purification:	Adsorption: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate
	antibodies reacting with other human serum proteins. The use of insolubilized adsorption
	antigens prevents the presence of excess adsorbent protein or immune complexes in the
	antiserum.

#### Target Details

Target:	F12
Alternative Name:	Coagulation Factor XII (F12 Products)
Background:	The defined antibody reactivity is restricted to FXII, FXIIa and complexes of FXIIa with other proteins. In immunoelectrophoresis, bi-dimensional electrophoresis and radial immunodiffusior
	(Ouchterlony) against normal plasma, a single precipitin line is obtained which shows a reaction
	of identity with precipitated purified Factor XII. No reaction is obtained with FXII-depleted plasma
Pathways:	Complement System
Application Details	
Application Notes:	This antiserum is primarily intended for the measurement of Factor XII in human plasma using
	the EID-method (Laurell): a specially purified agarose solution containing between 1 and 2%
	antiserum is poured onto a glass plate and allowed to gel. Plasma containing FXII is
	incorporated into a series of wells and electrophoresis is performed. Rockets due to
	antigen/antibody reaction are measured. The height of the rocket is directly proportional to the
	FXII concentration in the plasma. The concentration of FXII in normal adult plasma is about 40
	$\mu$ g/ml. Newborn infants have moderately lower levels. Plasma level fall moderately during
	pregnancy. Congenital and acquired deficiencies are known. Homozygotes have a thrombotic
	tendency. They usually have reduced FXII antigen and FXII coagulant activity but rare cases

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observed but are associated with a bleeding tendency.

have normal FXII antigen levels. Acquired reduction in antigen level and clotting activity have been described in disseminated intravascular coagulopathy, in cirrhosis, but not in chronic

active hepatitis and in nephrosis. A marked increase of the plasma level may occur due to

oestrogen action during oral contraception. Circulating antibodies against FXII have rarely been

## Application Details

Restrictions:

For Research Use only

# Handling

Format:	Lyophilized
Concentration:	Total protein concentration in the antiserum is about 50 mg/ml, the IgG concentration about 10 mg/ml. No foreign proteins added. Antibody titre: Precipitin titre not less than 1:32 as measured
	against appropriate antigens in precipitin-block titration.
Buffer:	Delipidated, heat inactivated, lyophilized, stable whole serum.
Preservative:	Without preservative
Storage:	4 °C/-20 °C
Storage Comment:	The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C ,
	prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by add ing 1 ml
	sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH
	7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon
	storage, this should be removed by centrifugation. It will not affect the performance of the
	antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the
	same day.
Publications	
Product cited in:	Labberton, Kenne, Long, Nickel, Di Gennaro, Rigg, Hernandez, Butler, Maas, Stavrou, Renné: "
	Neutralizing blood-borne polyphosphate in vivo provides safe thromboprotection." in: Nature

communications, Vol. 7, pp. 12616, (2018) (PubMed).