


Product datasheet

Anti-Factor XII antibody ab54716

1 图像

概述

产品名称	Anti-Factor XII抗体
描述	小鼠单克隆抗体to Factor XII
宿主	Mouse
经测试应用	适用于: WB, ELISA
种属反应性	与反应: Recombinant fragment 预测可用于: Human 
免疫原	Recombinant fragment, corresponding to amino acids 191-301 of Human Factor XII with tag (AAH12390).
阳性对照	Recombinant Factor XII.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: None Constituents: 1X PBS, pH 7.2
纯度	Protein A purified
克隆	单克隆
同种型	IgG2
轻链类型	kappa

应用

Our [Abpromise guarantee](#) covers the use of **ab54716** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab 评论	说明

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WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 68 kDa. This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.
ELISA		Use at an assay dependent dilution. Detection limit for recombinant tagged Factor XII is approximately 0.03ng/ml if used as a capture antibody.

## 靶标

### 功能

Factor XII is a serum 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 first to alpha-factor XIIa and then trypsin cleaves it to beta-factor XIIa. Alpha-factor XIIa activates factor XI to factor XIa.

### 疾病相关

Defects in F12 are the cause of factor XII deficiency (FA12D) [MIM:234000]; also known as Hageman factor deficiency. This trait is an asymptomatic anomaly of in vitro blood coagulation. Its diagnosis is based on finding a low plasma activity of the factor in coagulating assays. It is usually only accidentally discovered through pre-operative blood tests. F12 deficiency is divided into two categories, a cross-reacting material (CRM)-negative group (negative F12 antigen detection) and a CRM-positive group (positive F12 antigen detection).

Defects in F12 are the cause of hereditary angioedema type 3 (HAE3) [MIM:610618]; also known as estrogen-related HAE or hereditary angioneurotic edema with normal C1 inhibitor concentration and function. HAE is characterized by episodic local subcutaneous edema, and submucosal edema involving the upper respiratory and gastrointestinal tracts. HAE3 occurs exclusively in women and is precipitated or worsened by high estrogen levels (e.g., during pregnancy or treatment with oral contraceptives). It differs from HAE types 1 and 2 in that both concentration and function of C1 inhibitor are normal.

### 序列相似性

Belongs to the peptidase S1 family.  
 Contains 2 EGF-like domains.  
 Contains 1 fibronectin type-I domain.  
 Contains 1 fibronectin type-II domain.  
 Contains 1 kringle domain.  
 Contains 1 peptidase S1 domain.

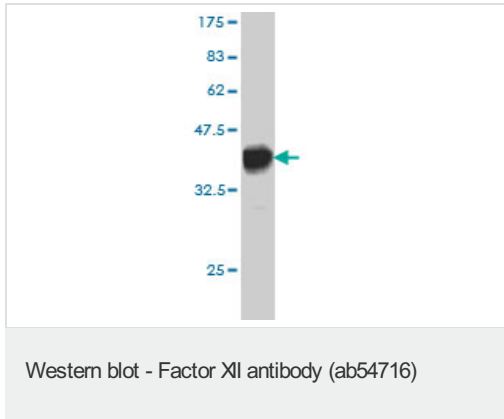
### 翻译后修饰

Factor XII is activated by kallikrein in alpha-factor XIIa, which is then further converted by trypsin into beta-factor XIIa. Alpha-factor XIIa is composed of the NH<sub>2</sub>-terminal heavy chain (Coagulation factor XIIa heavy chain) and the COOH-terminal light chain (Coagulation factor XIIa light chain), connected by a disulfide bond. Beta-factor XIIa is composed of 2 chains linked by a disulfide bond, a light chain (Beta-factor XIIa part 2), corresponding to the COOH-terminal light chain (Coagulation factor XIIa light chain) and a nonapeptide (Beta-factor XIIa part 1).  
 O- and N-glycosylated. The O-linked polysaccharides were not identified, but are probably the mucin type linked to GalNAc.

### 细胞定位

Secreted.

## 图片



Anti-Factor XII antibody (ab54716) at 1 µg/ml  
+ Recombinant Factor XII tagged fragment at  
0.2 µg

#### Secondary

Goat Anti-Mouse IgG (H&L)-HRP at 1/5000  
dilution

**Predicted band size:** 68 kDa

**Observed band size:** 38 kDa

Western blot against tagged recombinant  
protein immunogen. Predicted band size of  
immunogen is 38kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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