

Factor XII Polyclonal Antibody

Catalog number: 12551-1-AP

Size: 30 µg/150 µl

Source: Rabbit

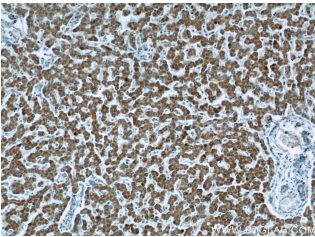
Isotype: IgG

Synonyms:

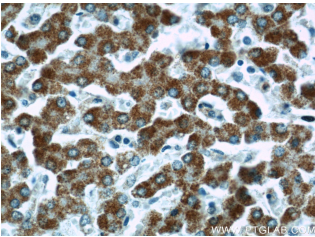
F12; Coagulation factor XII, F12,

Factor XII, HAE3, HAEX, HAF,

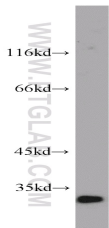
Hageman factor



Immunohistochemical of paraffin-embedded human liver using 12551-1-AP (F12 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver using 12551-1-AP (F12 antibody) at dilution of 1:50 (under 40x lens)



Jurkat cells were subjected to SDS PAGE followed by western blot with 12551-1-AP (F12 antibody) at dilution of 1:500

Background

Factor XII (F XII, Hageman factor) is a 80kD, single chain glycoprotein that circulates in blood as an inactive zymogen. F XII plays an important role in blood coagulation, fibrinolysis, and kinin generation. When plasma comes into contact with negatively charged surfaces such as glass, kaolin, or dextran sulfate, F XII is bound to the surface and undergoes limited proteolysis by plasma kallikrein, resulting in two active enzyme forms, α -F XIIa and β -F XIIa. α -F XIIa consisting of a 28kD light chain containing the protease domain, and a 52kD heavy chain containing the anionic surface-binding domain. β -F XIIa consists of two disulfide-linked chains, a 2 kD light chain and a 28 kD heavy chain containing the catalytic domain. Defects in Factor XII do not cause any clinical symptoms and the sole effect is that whole-blood clotting time is prolonged.

Applications

Tested applications:	ELISA, WB, IHC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated Factor XII MW:	615aa, 68kd
Observed Factor XII MW:	28 kDa
Positive WB detected in	Jurkat cells, HepG2 cells, mouse liver tissue
Positive IHC detected in	Human liver tissue, human colon cancer tissue
Recommended dilution:	WB: 1:400 - 1:1600 IHC: 1:25 - 1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3401
GenBank accession number:	BC012390
Gene ID (NCBI):	2161
Full name:	Coagulation factor XII (Hageman factor)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.