For Research Use Only

F5 Polyclonal antibody

Catalog Number:20963-1-AP 2 Publications

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Basic Information

Catalog Number:
20963-1-AP

Size:
150ul , Concentration: 600 μg/ml by Nanodrop and 373 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000130

GeneID (NCBI):
2153

Full Name:
coagulation factor V (proaccelerin, labile factor)

Calculated MW:
252 kDa

Observed MW:
145 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:100-1:400

Applications

Tested Applications:
IHC, WB,ELISA

Cited Applications:
IHC

Species Specificity:
human, mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse liver tissue,

IHC : human liver cancer tissue,

Background Information

There are 13 blood coagulation factors found in the blood. There are 13 blood coagulation factors found in the blood. F5 has little or no intrinsic procoagulant activity prior to its activation through limited proteolysis by thrombin or F10a at Arg709, Arg1018 and Arg1545. The resulting F5a molecule is a heterodimer that consists of a 105 kDa heavy chain and a 71/74 kDa light chain that are noncovalently associated in a calcium-dependent manner. The intact procofactor molecule (330 kDa) as well as proteins similar in size to the factor Va light chain (74 kDa) and both light chain precursors (280 and 220 kDa) found in factor Va(IIa) were observed. And factor Xa cleaves the factor Va light chain at Arg1765 into fragments of ~30 and ~48 kDa (residues 1546-1765 and 1766-2196, respectively) in the bovine and human systems.

Notable Publications

Author	Pubmed ID	Journal	Application
Kai Guo	34514877	Thyroid	IHC
Sihui Yu	35626004	Cancers (Basel)	IHC

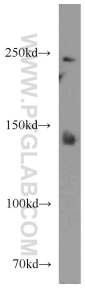
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

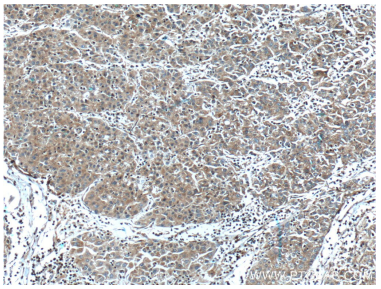
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

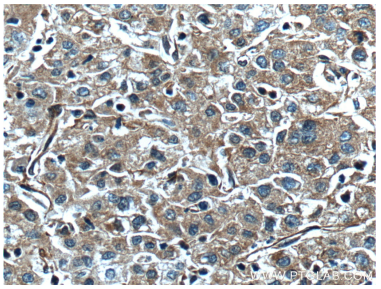
Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 20963-1-AP (F5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 20963-1-AP (F5 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 20963-1-AP (F5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).