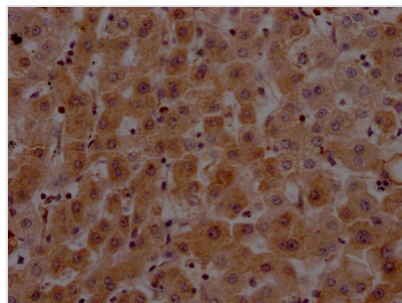




F2 Antibody

Product Code	CSB-RA912740A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P00734
Immunogen	A synthesized peptide derived from human Prothrombin
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cardiovascular; Cell biology; Signal transduction
Gene Names	F2
Accession NO.	9A1

Image



IHC image of CSB-RA912740A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

In humans, the F2 gene codes for prothrombin, which is produced by the liver. It is transformed to its active form, thrombin (factor IIa), through enzymatic cleavage of two sites by activated FX (FXa). Once in the circulation, activated thrombin converts fibrinogen to fibrin, activates platelets, and improves endothelial permeability, preventing blood loss by forming a fibrin clot at the site



of injury and promoting vascular remodeling. Prothrombin activation is crucial in physiological and pathophysiological coagulation. In addition to its primary function in coagulation, thrombin has the ability to mediate a variety of other effects. Thrombin is a powerful vasoconstrictor that has been linked to vasospasms after subarachnoid hemorrhage.

Genes for F2 antibody's heavy and light chains were cloned into plasma vectors, which were subsequently transfected into mammalian cells for expression. The resulting product is the recombinant F2 antibody. This recombinant F2 antibody was subsequently purified from the culture medium of transfected host cell lines through A synthesized peptide derived from human Prothrombin. It has verified to detect F2 protein Human in the ELISA, IHC.