产品名称：CD42b Rabbit Polyclonal Antibody
产品货号：APRab08396

产品概述（Summary）

产品名称（Production Name）	CD42b Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Rat,Mouse

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	GP1BA
别名（Alternative Names）	GP1BA; Platelet glycoprotein Ib alpha chain; GP-Ib alpha; GPIb-alpha; GPIbA; Glycoprotein Ibalpha; Antigen CD42b-alpha; CD42b
基因 ID（Gene ID）	2811.0
蛋白 ID（SwissProt ID）	P07359.The antiserum was produced against synthesized peptide derived from the Internal region of human GP1BA. AA range:271-320

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量（Molecular Weight）	69kDa

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研究背景（Background）

Glycoprotein Ib (GP Ib) is a platelet surface membrane glycoprotein composed of a heterodimer, an alpha chain and a beta chain, that is linked by disulfide bonds. The Gp Ib functions as a receptor for von Willebrand factor (VWF). The complete receptor complex includes noncovalent association of the alpha and beta subunits with platelet glycoprotein IX and platelet glycoprotein V. The binding of the GP Ib-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendothelium after vascular injury, and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis, and hemostasis. This gene encodes the alpha subunit. Mutations in this gene result in Bernard-Soulier syndromes and platelet-type von Willebrand disease. The coding region of this gene is known to contain a polymophic variable number tandem repeat (VNTR) domain that isdisease:Defects in GP1BA are a cause of Bernard-Soulier syndrome (BSS) [MIM:231200]; also known as giant platelet disease (GPD). BSS patients have unusually large platelets and have a clinical bleeding tendency.,disease:Defects in GP1BA are a cause of von Willebrand disease (vWD) [MIM:177820]; also known as platelet-type von Willebrand disease or pseudo-von Willebrand disease (pseudo-vWD). This autosomal dominant bleeding disorder is caused by an increased affinity of GP-Ib for soluble vWF resulting in impaired hemostatic function due to the removal of vWF from the circulation.,disease:Defects in GP1BA are the cause of benign mediterranean macrothrombocytopenia [MIM:153670]; also known as autosomal dominant benign Bernard-Soulier syndrome. Benign mediterranean macrothrombocytopenia is characterized by mild or no clinical symptoms, normal platelet function, and normal megakaryocyte count.,disease:Genetic variations in GP1BA may be a cause of susceptibility to nonarteritic anterior ischemic optic neuropathy (NAION) [MIM:258660]; also known as susceptibility to anterior ishcemic optic neuropathy (AION). AION involves loss of vision due to damage to the optic nerve from insufficient blood supply. AION is generally divided into two types: arteritic AION and NAION. NAION probably results from minute infarctions of the optic nerve caused by occlusion of the posterior ciliary arteries. Hypercholesterolemia, diabetes mellitus, ischemic heart disease, hyperhomocysteinemia, hypertension, and crowded disk have been implicated as predisposing conditions.,function:GP-Ib, a surface membrane protein of platelets, participates in the formation of platelet plugs by binding to the A1 domain of vWF, which is already bound to the subendothelium.,miscellaneous:Binding sites for vWF and thrombin (the latter site with unknown function) are in the N-terminal part of the molecule.,miscellaneous:Platelet activation apparently involves disruption of the macromolecular complex of GP-Ib with the platelet glycoprotein IX (GP-IX) and dissociation of GP-Ib from the actin-binding protein.,polymorphism:Polymorphisms arise from a variable number of tandem 13-amino acid repeats of S-E-P-A-P-S-P-T-T-P-E-P-T in the mucin-like macroglycopeptide (Pro/Thr-rich) domain. Allele D (shown here) contains one repeat starting at position 415, allele C contains two repeats, allele B contains three repeats and allele A contains four repeats. Allele B is associated with susceptibility to nonarteritic anterior ischemic optic neuropathy.,polymorphism:Position 161 is associated with platelet-specific alloantigen Siba. Siba(-) has Thr-161 and Siba(+) has Met-161. Siba is involved in neonatal alloimmune thrombocytopenia (NATP).,PTM:Glycocalicin, which is approximately coextensive with the extracellular part of the molecule, is cleaved off by calpain during platelet lysis.,similarity:Contains 6 LRR (leucine-rich) repeats.,subunit:Heterodimer composed of GP-Ib alpha and beta; disulfide linked. GP-IX is complexed with the GP-Ib heterodimer via a non covalent linkage. Interacts with FLNB.,

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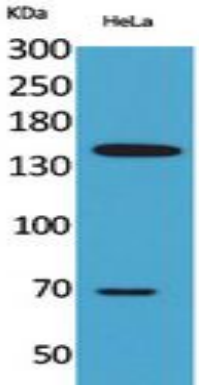
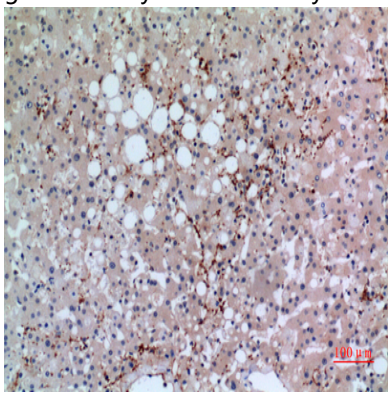
研究领域（Research Area）

ECM-receptor interaction;Hematopoietic cell lineage;

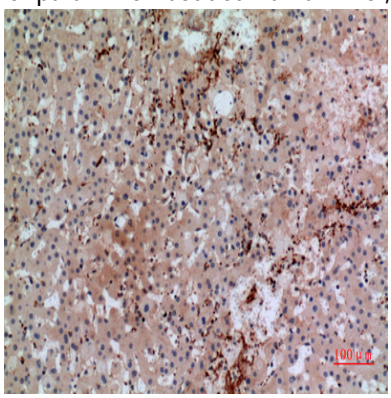
图片（Image Data）



Western Blot analysis of HeLa cells using CD42b Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



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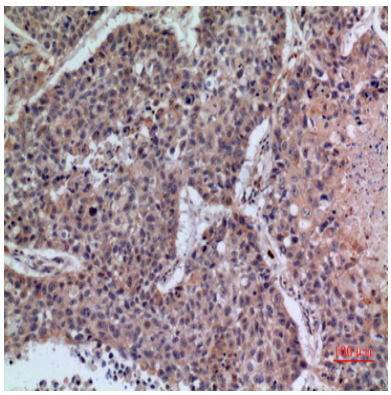

Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100

注意事项（Note）

For research use only .