CD42b/GP1BA Protein, Human (515a.a, HEK293, His)

Cat. No.:	HY-P77951
Synonyms:	GP-Ib alpha; GPIb-alpha; GPIbA; GP1BA; BDPLT1; BDPLT3; BSS; CD42B; CD42b-alpha; DBPLT3; GP1B; VWDP; BP1BA; MGC34595
Species:	Human
Source:	HEK293
Accession:	P07359 (H17-L531)
Gene ID:	2811
Molecular Weight:	100-130 kDa

PROPERTIES

AA Sequence	H P I C E V S K V A S H L E V N C D K R N L T A L P P D L P K D T T I L H L S E N L L Y T F S L A T L M P Y T R L T Q L N L D R C E L T K L Q V D G T L P V L G T L D L S H N Q L Q S L P L L G Q T L P A L T V L D V S F N R L T S L P L G A L R G L G E L Q E L Y L K G N E L K T L P P G L L T P T P K L E K L S L A N N N L T E L P A G L L N G L E N L D T L L L Q E N S L Y T I P K G F F G S H L L P F A F L H G N P W L C N C E I L Y F R R W L Q D N A E N V Y V W K Q G V D V K A M T S N V A S V Q C D N S D K F P V Y K Y P G K G C P T L G D E G D T D L Y D Y Y P E E D T E G D K V R A T R T V V K F P T K A H T T P W G L F Y S W S T A S L D S Q M P S S L H P T Q E S T K E Q T T F P P R W T P N F T L H M E S I T F S K T P K S T T E P T P S P T T S E P V P E P A P N M T T L E P T P S P T T P E P T S E P A P S P T T P E P T S E P A P S P T T P E P T S E P A P S P T T P E P T P I P T I A T S P T I L V S A T S L I T P K S T F L T T T K P V S L L E S T K K T I P E L D Q P P K L R G V L Q G H L E S S R N D P F L H P D F C C L L P L
Biological Activity	Immobilized Human CD42b, His Tag at 0.5 μg/mL (100μl/well) on the plate. Dose response curve for Anti-CD42b Antibody, hFc Tag with the EC_{50} of <11.3 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD42b/GP1BA, a crucial surface membrane protein on platelets, plays a pivotal role in the formation of platelet plugs by engaging with the A1 domain of von Willebrand factor (vWF), which is already bound to the subendothelium. The GP1BA subunit forms a disulfide-linked complex with two GP1BB subunits, collectively known as GP-Ib. The GP-IX subunit is intricately associated with the GP-Ib heterodimer through a non-covalent linkage. Notably, CD42b/GP1BA interacts with filamin B (FLNB), and FLNA through specific filamin repeats, establishing essential connections that contribute to the intricate regulation of platelet function and hemostasis.

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