

Recombinant Full Length Human GP1BB Protein

Cat. No. GP1BB-5463HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human GP1BB full-length ORF (AAI60146.1) recombinant protein without tag.

Species Human

Source In Vitro Cell Free System

ProteinLength 738 amino acids

Description

Platelet glycoprotein Ib (GPIb) is a heterodimeric transmembrane protein consisting of a disulfide-linked 140 kD alpha chain and 22 kD beta chain. It is part of the GPIb-V-IX system that constitutes the receptor for von Willebrand factor (VWF), and mediates platelet adhesion in the arterial circulation. GPIb alpha chain provides the VWF binding site, and GPIb beta contributes to surface expression of the receptor and participates in transmembrane signaling through phosphorylation of its intracellular domain. Mutations in the GPIb beta subunit have been associated with Bernard-Soulier syndrome, velocardiofacial syndrome and giant platelet disorder. The 206 amino acid precursor of GPIb beta is synthesized from a 1.0 kb mRNA expressed in platelets and megakaryocytes. A 411 amino acid protein arising from a longer, unspliced transcript in endothelial cells has been described; however, the authenticity of this product has been questioned. Yet another less abundant GPIb beta mRNA species of 3.5 kb, expressed in nonhematopoietic tissues such as endothelium, brain and heart, was shown to result from inefficient usage of a non-consensus polyA signal within a separate gene (septin 5) located upstream of this gene. In the absence of polyadenylation from its own imperfect site, the septin 5 gene uses the consensus

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	polyA signal of this gene. [provided by RefSeq]
Form	Liquid
Molecular Mass	22.7 kDa
AA Sequence	<p>MSGGPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFPVD TTELVLTGNNLTALPPGLLDALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAP YRDLRCVAPPALRGRLPYLAEDELRAACAPGPLCWGALAAQLALLGLGLLHALLLV LLLCRLRRLRARARARAAAARLSLTDPLVAERAGTDES</p>
Applications	<p>Antibody Production Functional Study Compound Screening</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name	GP1BB glycoprotein Ib (platelet), beta polypeptide [Homo sapiens]
Official Symbol	GP1BB
Synonyms	GP1BB; glycoprotein Ib (platelet), beta polypeptide; platelet glycoprotein Ib beta chain; CD42c; GPIb-beta; GP-Ib beta; antigen CD42b-beta; nuclear localization signal deleted in velocardiofacial syndrome; BS; CD42C; GPIBB; BDPLT1;

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Gene ID	2812
mRNA Refseq	NM_000407
Protein Refseq	NP_000398
MIM	138720
UniProt ID	P13224

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