Datasheet for ABIN5713710

P4HB Protein (AA 18-508) (His tag)

1 Image

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Overview

Quantity:	100 µg
Target:	P4HB
Protein Characteristics:	AA 18-508
Origin:	Human
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This P4HB protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	DAPEEEDHVL VLRKSNFAEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA GKLKAEGSEI RLAKVDATEE SDLAQQYGVR GYPTIKFFRN GDTASPKEYT AGREADDIVN WLKKRTGPAA TTLPDGAAAE SLVESSEVAV IGFFKDVESD SAKQFLQAAE AIDDIPFGIT SNSDVFSKYQ LDKDGVVLFK KFDEGRNNFE GEVTKENLLD FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGKLSNFKT AAESFKGKIL FIFIDSDHTD NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESEELTAE RITEFCHRFL EGKIKPHLMS QELPEDWDKQ PVKVLVGKNF EDVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH ENIVIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLESGGQDG AGDDDDLEDL EEAEEPDMEE DDDQKAVKDE L
Purification:	SDS-PAGE
Purity:	> 90 %

Target Details

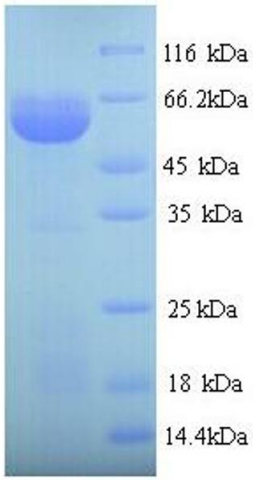
Target:	P4HB
Alternative Name:	PDIA1 (P4HB Products)
Background:	This multifunctional protein catalyzes the formation, breakage and rearrangent of disulfide bonds. At the cell surface, ses to act as a reductase that cleaves disulfide bonds of proteins attached to the cell. May therefore cause structural modifications of exofacial proteins. Inside the cell, ses to form/rearrange disulfide bonds of nascent proteins. At high concentrations, functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, facilitates aggregation (anti-chaperone activity). May be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. Also acts a structural subunit of various enzymes such as prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTTP.
Molecular Weight:	57.3 kDa
UniProt:	P07237
Pathways:	Maintenance of Protein Location, Cell RedoxHomeostasis, Lipid Metabolism

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



SDS-PAGE

Image 1.