

# Immunotag™ P4HB Antibody

Antibody Specification	
Catalog No.	ITA6215
Product Description	Immunotag™ P4HB Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	P4HB
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human P4HB
Specificity	P4HB Antibody detects endogenous levels of total P4HB
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	P4HB
Accession No.	P07237

## Antibody Specification

Alternate Names	Cellular thyroid hormone binding protein; Cellular thyroid hormone-binding protein; Collagen prolyl 4 hydroxylase beta; Disulphide Isomerase; DSI; EC 5.3.4.1; Endoplasmic reticulum resident protein 59; ER protein 59; ERBA2L; ERp59; GIT; Gltathione insulin transhydrogenase; Glutathione insulin transhydrogenase; P4HB; P4Hbeta; p55; PDI; PDIA1; PDIA1_HUMAN; PDIR; PHDB; PO4DB; PO4HB; Procollagen proline 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase) beta polypeptide (protein disulfide isomerase associated 1); Procollagen proline 2 oxoglutarate 4 dioxygenase beta subunit; PROHB; Prolyl 4 hydroxylase beta polypeptide; Prolyl 4 hydroxylase beta subunit; Prolyl 4 hydroxylase subunit beta; Prolyl 4-hydroxylase subunit beta; Protein disulfide isomerase associated 1; Protein disulfide isomerase, family A, member 1; Protein disulfide isomerase/oxidoreductase; Protein disulfide-isomerase; Protocollagen hydroxylase; Thbp; Thyroid hormone binding protein p55; Thyroid hormone binding protein p55 cellular; V erb a avian erythroblastic leukemia viral oncogene homolog 2 like;
Description	This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, seems 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, seems 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. Receptor for LGALS9; the interaction retains P4HB at the cell surface of Th2 T helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration (PubMed:21670307).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	57kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.