Product Datasheet

P4HB Antibody

Catalog No: #32085

Package Size: #32085-1 50ul #32085-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

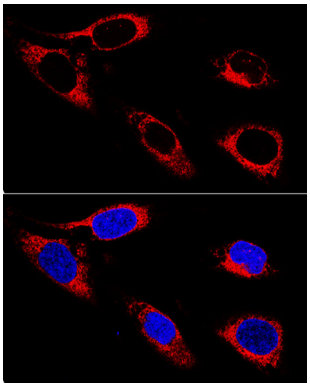
Description

Product Name	P4HB Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total P4HB protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human P4HB.
Target Name	P4HB
Other Names	P4HB; DSI; ERBA2L; GIT; P4Hbeta
Accession No.	Swiss-Prot:P07237NCBI Gene ID:5034
Uniprot	P07237
GeneID	5034;
SDS-PAGE MW	57KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

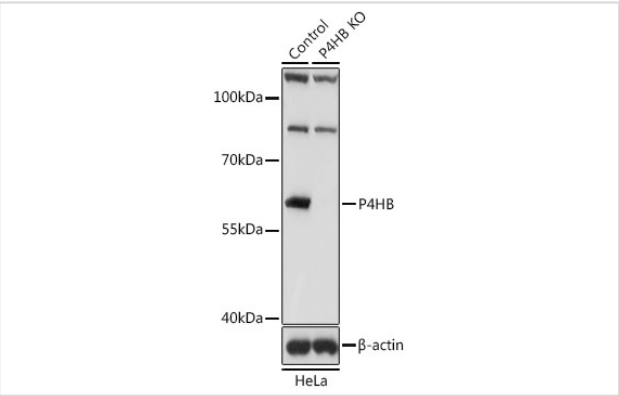
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:20 - 1:100IP□1:50 - 1:100

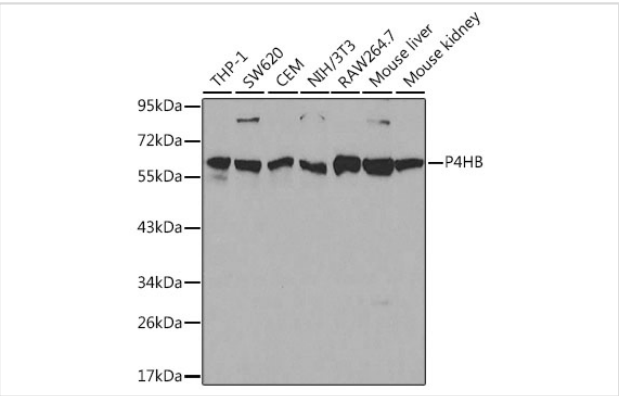
Images



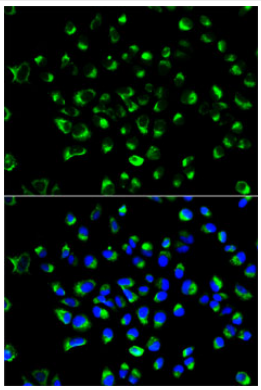
Confocal immunofluorescence analysis of U-2OS cells using P4HB at dilution of 1:400. Blue: DAPI for nuclear staining.



Western blot analysis of extracts from normal (control) and P4HB knockout (KO) HeLa cells, using P4HB at 1:1000 dilution.



Western blot analysis of extracts of various cell lines, using P4HB at 1:1000 dilution.



Immunofluorescence analysis of HeLa cells using P4HB . Blue: DAPI for nuclear staining.

Background

During their synthesis, secretory proteins translocate into the endoplasmic reticulum (ER) where they are post-translationally modified and properly folded. To reach their native conformation, many secretory proteins require the formation of intra- or inter-molecular disulfide bonds (1). This process is called oxidative protein folding. Protein disulfide isomerase (PDI) catalyzes the formation and isomerization of these disulfide bonds (2). Studies on mechanisms of oxidative folding suggest that molecular oxygen oxidizes the ER-protein Ero1, which in turn oxidizes PDI through disulfide exchange (3). This event is then followed by PDI-catalyzed disulfide bond formation in folding proteins (3).

Note: This product is for in vitro research use only