

## Anti-P4HB Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 55 kDa. Actual: 55 kDa.
Purification:	Protein A purified

## Applications

1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (P4HB) Polyclonal Antibody, Unconjugated (TMAB-09874) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.

Verified Activity: 2. Sample:  
ASPC-1 Cell (Human) Lysate at 40 µg  
PANC-1 Cell (Human) Lysate at 40 µg  
Primary: Anti-P4HB (TMAB-09874) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 55 kD  
Observed band size: 55 kD

Application: WB, IHC-P, IHC-Fr, IF

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

## Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human PDI
Antigen Species:	Human
Gene ID:	5034
Uniprot ID:	P07237

## Research Background

P4HB, Prolyl 4 hydroxylase subunit beta, is a multifunctional and highly abundant enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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