

Product Name: P4HB Mouse Monoclonal Antibody
Catalog #: AMM82746



Summary

Production Name	P4HB Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,FC,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	P4HB
Alternative Names	DSI,GIT,PDI,PHDB,PDIA1,PO4DB,PO4HB,PROHB,CLCRP1,ERBA2L,P4Hbeta
Gene ID	5034.0
SwissProt ID	P07237.Purified recombinant fragment of human P4HB (AA: 309-508) expressed in Mammalian.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	57.1kDa

Background

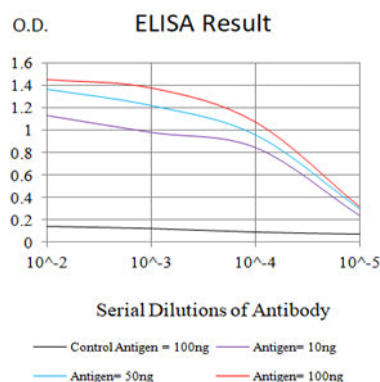
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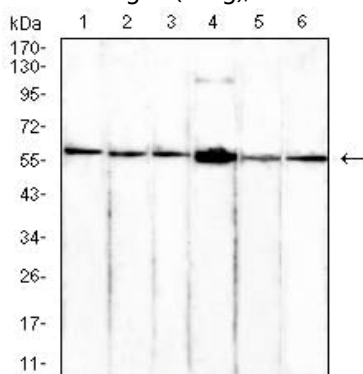
This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex.

Research Area

Image Data

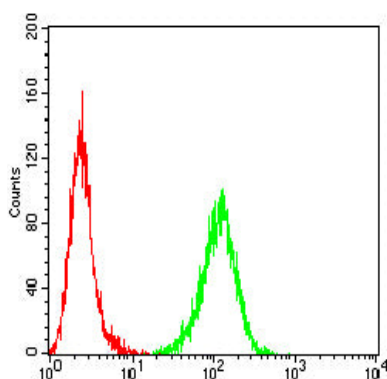


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

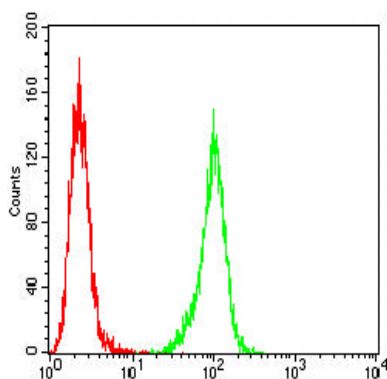


Western blot analysis using P4HB mouse mAb against Hela (1), PANC-1 (2), MCF-7 (3), THP-1 (4), SW620 (5), and HepG2 (6) cell lysate.

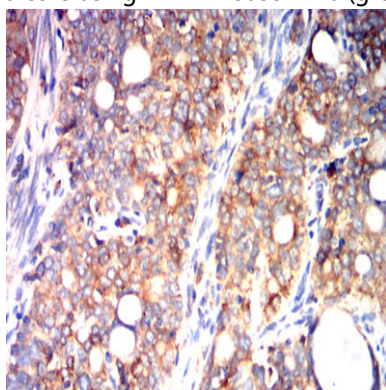
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Flow cytometric analysis of A375 cells using P4HB mouse mAb (green) and negative control (red).

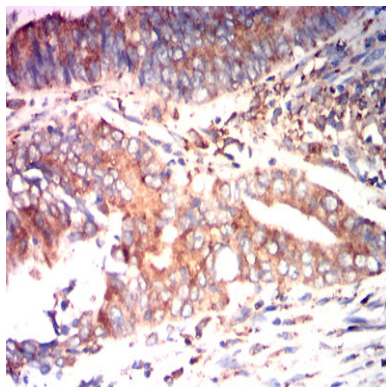


Flow cytometric analysis of Hela cells using P4HB mouse mAb (green) and negative control (red).

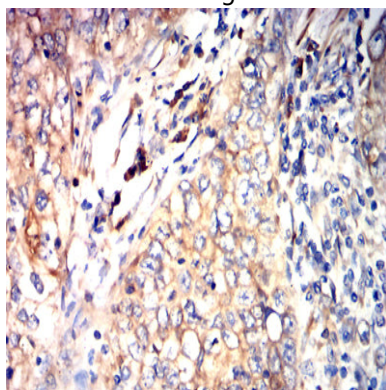


Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using P4HB mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human rectal cancer tissues using P4HB mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using P4HB mouse mAb with DAB staining.

Note

For research use only.