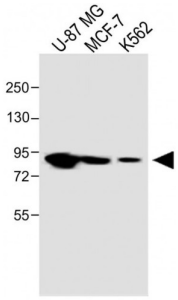
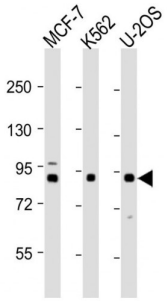
Procollagen Lysine-1,2-Oxoglutarate-5-Dioxygenase 1 (PLOD1) Antibody

Catalogue No.:abx026944

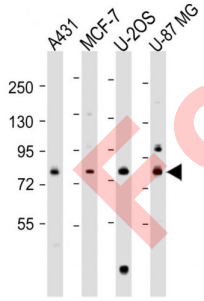
WB analysis of U251 cell line lysates.



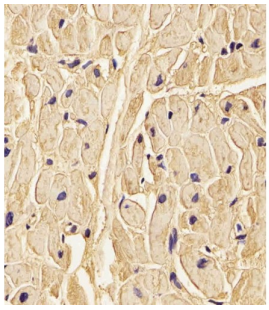
WB analysis of various whole cell lysates (20 µg/lane), using PLOD1 antibody (1/1000 dilution) and HRP-conjugated Goat anti-Rabbit IgG (H+L) (1/10000 dilution). Observed band size: 90 kDa. Blocking/dilution buffer: 5% NFDM/TBST.



WB analysis of various whole cell lysates (20 µg/lane), using PLOD1 antibody (1/1000 - 1/2000 dilution) and HRP-conjugated Goat anti-Rabbit IgG (H+L) (1/10000 dilution). Predicted band size: 84 kDa. Blocking/dilution buffer: 5% NFDM/TBST.



WB analysis of various whole cell lysates (20 µg/lane), using PLOD1 antibody (1/2000 dilution) and HRP-conjugated Goat anti-Rabbit IgG (H+L) (1/10000 dilution). Predicted band size: 84 kDa. Blocking/dilution buffer: 5% NFDM/TBST.



IHC-P analysis of human heart tissue. The tissue was fixed with formaldehyde and blocked with 3% BSA for 30 min at room temperature. Antigen retrieval was carried out by heat mediation with citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hour at 37 °C. Undiluted biotin-conjugated goat polyvalent antibody was used as the secondary antibody.

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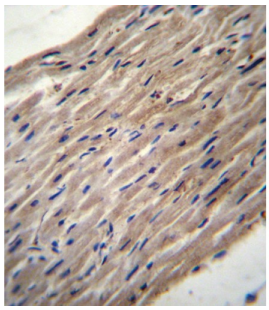
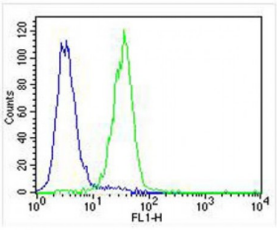
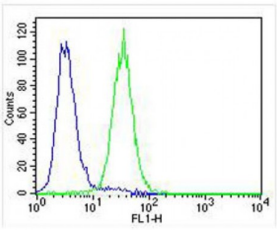


IHC-P analysis of human heart tissue,. with DAB staining.



Flow cytometry analysis of U-87 MG cells, using PLOD1 antibody (green). Cells were fixed with 2% paraformaldehyde for 10 min and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions followed by the primary antibody (1/25 dilution) for 60 min at 37 °C. DL488-conjugated goat anti-rabbit IgG (1/400 dilution) secondary antibody was incubated for 40 min at 37 °C. Mouse IgG1 was used as the isotype control antibody (blue) under the same conditions. Acquisition of > 10,000 events was performed.



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Lysyl hydroxylase is a membrane-bound homodimeric protein localized to the cisternae of the endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VI have deficiencies in lysyl hydroxylase activity.

Target:	Procollagen Lysine-1,2-Oxoglutarate-5-Dioxygenase 1 (PLOD1)
Clonality:	Polyclonal
Reactivity:	Human
Tested Applications:	ELISA, WB, IHC, FCM
Host:	Rabbit
Recommended dilutions:	WB: 1/2000, IHC-P: 1/10 - 1/50, FCM: 1/25. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated

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Immunogen:	KLH-conjugated synthetic peptide between 66-94 amino acids from the N-terminal region of human PLOD1.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein A column, followed by peptide affinity purification.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q02809 (UniProt, ExPASy)
Gene Symbol:	PLOD1
GeneID:	5351
OMIM:	153454
HGNC:	9081
KEGG:	hsa:5351
Ensembl:	ENSG00000083444
String:	9606.ENSP00000196061
Molecular Weight:	Calculated MW: 83.6 kDa
Buffer:	PBS containing 0.09% sodium azide.
Specificity:	Predicted to react with Mouse PLOD1.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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