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PRODH Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8620c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9WU79
Other Accession	O43272
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68036
Antigen Region	130-155

Additional Information

Gene ID	19125
Other Names	Proline dehydrogenase 1, mitochondrial, Proline oxidase, Prodh, Pro1
Target/Specificity	This PRODH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 130-155 amino acids from the Central region of human PRODH.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRODH Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Prodh
Synonyms	Pro1
Function	Converts proline to delta-1-pyrroline-5-carboxylate.

Cellular Location	Mitochondrion matrix.
Tissue Location	Expressed in liver, kidney, heart and to a lesser extent in brain, lung and muscle

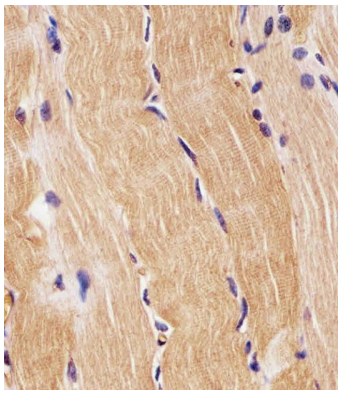
Background

PRODH is a mitochondrial proline dehydrogenase that catalyzes the first step in proline degradation. It converts proline to delta-1-pyrroline-5-carboxylate.

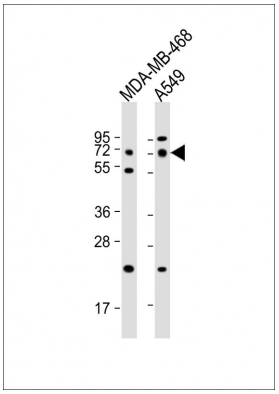
References

Polyak,K., et.al., Nature 389 (6648), 300-305 (1997) Gogos,J.A., et.al., Nat. Genet. 21 (4), 434-439 (1999)

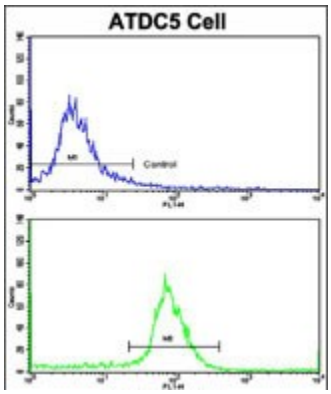
Images



AP8620c staining PRODH in H. skeletal muscle sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



All lanes : Anti-PRODH Antibody (Center) at 1:1000 dilution Lane 1: MDA-MB-468 whole cell lysates Lane 2: A549 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Flow cytometric analysis of ATDC5 cells using mouse Prodh Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.