

Rabbit anti-Human, mouse PRODH Polyclonal Antibody | anti-Prodh antibody

PRODH Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28717	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

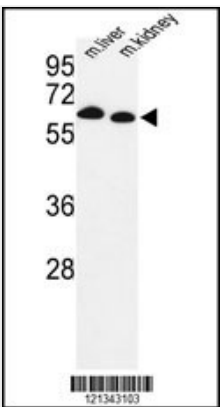
PRODH; Polyclonal Antibody; PRODH Antibody (Center); Proline dehydrogenase 1; mitochondrial; Proline oxidase; Prodh; Pro1; anti-Prodh antibody

PRODUCT SPECIFICATIONS

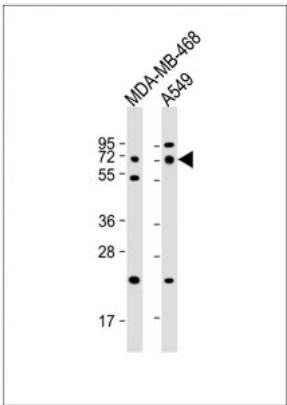
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PRODH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 130-155 amino acids from the Central region of human PRODH.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	130-155
Sequence Length	599
Applicable Applications for anti-Prodh antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Application Notes	FC~~1:25 IHC-P~~1:50~100 WB~~1:1000
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.
Preparation and 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.



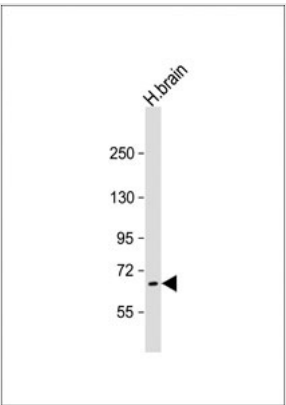
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with mouse Prodh Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



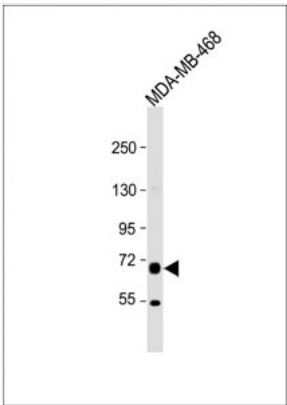
WB (Western Blot)
Western blot analysis of mouse Prodh Antibody (Center) in mouse liver, kidney tissue lysates (35ug/lane). PRODH (arrow) was detected using the purified Pab.



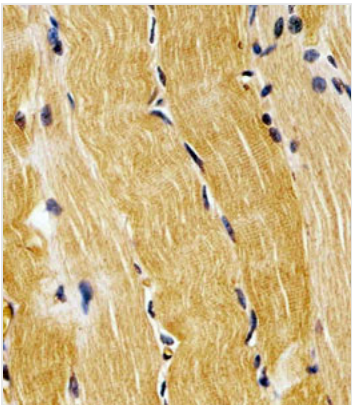
WB (Western Blot)
All lanes : Anti-PRODH Antibody (Center) at1:1000 dilution Lane 1: MDA-MB-468 whole celllysates Lane 2: A549 whole cell lysatesLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted bandsize : 68 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Application Data
Anti-PRODH Antibody (Center) at 1:2000dilution + human brain lysate Lysates/proteinsat 20 µg per lane. Secondary Goat Anti-RabbitIgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDaBlocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)
Anti-PRODH Antibody (Center) at 1: 2000 dilution + MDA-MB-468 whole cell lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidaseconjugated at 1/10000 dilution. Predicted bandsize : 68 kDa Blocking/Dilution buffer: 5%NFDm/TBST.



IHC (Immunohistochemistry)
AAA28717_IHC staining PRODH in H. skeletal musclesections by Immunohistochemistry (IHC-P paraformaldehyde-fixed, paraffin-embeddedsections). Tissue was fixed with formaldehydeand blocked with 3% BSA for 0. 5 hour at roomtemperature; antigen retrieval was by heatmediation with a citrate buffer (pH6). Sampleswere incubated with primary antibody (1/25)for 1 hours at 37°C. A undiluted biotinylatedgoat polyvalent antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Prodh antibody	PRODH is a mitochondrial proline dehydrogenase that catalyzes the first step in proline degradation. It converts proline to delta-1-pyrroline-5-carboxylate.
Product Categories/Family for anti-Prodh antibody	Cancer; Cell Biology; Signal transduction
References	Polyak,K., et.al., Nature 389 (6648), 300-305 (1997) Gogos,J.A., et.al., Nat. Genet. 21 (4), 434-439 (1999)

NCBI AND UNIPROT INFORMATION

NCBI GI #	118601004
NCBI GeneID	19125
NCBI Accession #	NP_035302.2
NCBI GenBank Nucleotide #	NM_011172.2
UniProt Accession #	Q9WU79; Q3UNR4; Q9QX61; A0JLW6
NCBI Official Full Name	proline dehydrogenase 1, mitochondrial
NCBI Official Synonym Full Names	proline dehydrogenase
NCBI Official Symbol	Prodh
NCBI Official Synonym Symbols	Pro1; Pro-1; Ym24d07
NCBI Protein Information	proline dehydrogenase 1, mitochondrial
UniProt Protein Name	Proline dehydrogenase 1, mitochondrial
UniProt Gene Name	Prodh
UniProt Synonym Gene Names	Pro1
UniProt Entry Name	PROD_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.