


# Anti-PRODH antibody ab48001

## 1 References

### 概述

产品名称	Anti-PRODH抗体
描述	山羊多克隆抗体to PRODH
宿主	Goat
经测试应用	适用于: IHC-P
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthetic peptide: C-ERDGS GTNKRDKQYQ , corresponding to internal sequence amino acids 84-98 of Human PRODH <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
阳性对照	Human Brain lysates
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
纯度	Immunogen affinity purified
纯化说明	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	多克隆

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab48001于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 3 - 6 µg/ml.

## 靶标

<b>功能</b>	Converts proline to delta-1-pyrroline-5-carboxylate.
<b>组织特异性</b>	Expressed in lung, skeletal muscle and brain, to a lesser extent in heart and kidney, and weakly in liver, placenta and pancreas.
<b>通路</b>	Amino-acid degradation; L-proline degradation into L-glutamate; L-glutamate from L-proline: step 1/2.
<b>疾病相关</b>	Defects in PRODH are the cause of hyperprolinemia type 1 (HP-1) [MIM:239500]. HP-1 is a disorder characterized by elevated serum proline levels. May be involved in the psychiatric and behavioral phenotypes associated with the 22q11 velocardiofacial and DiGeorge syndrome. Defects in PRODH are associated with susceptibility to schizophrenia type 4 (SCZD4) [MIM:600850]. A complex, multifactorial psychotic disorder or group of disorders characterized by disturbances in the form and content of thought (e.g. delusions, hallucinations), in mood (e.g. inappropriate affect), in sense of self and relationship to the external world (e.g. loss of ego boundaries, withdrawal), and in behavior (e.g. bizarre or apparently purposeless behavior). Although it affects emotions, it is distinguished from mood disorders in which such disturbances are primary. Similarly, there may be mild impairment of cognitive function, and it is distinguished from the dementias in which disturbed cognitive function is considered primary. Some patients manifest schizophrenic as well as bipolar disorder symptoms and are often given the diagnosis of schizoaffective disorder.
<b>序列相似性</b>	Belongs to the proline oxidase family.
<b>细胞定位</b>	Mitochondrion matrix.

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