

Nur für Forschungszwecke

# P5CS Polyklonaler Antikörper

Katalog-Nr.:17719-1-AP

Vorgestelltes Produkt

10 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 17719-1-AP	<b>GenBank-Zugangsnummer:</b> BC106054	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul, Konzentration: 500 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 5832	<b>Empfohlene Verdünnungen:</b> WB 1:2000-1:16000 IP 0.5-4.0 µg für IP und 1:500-1:2000 für WB
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> aldehyde dehydrogenase 18 family, member A1	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 795 aa, 87 kDa	
<b>Immunogen Katalognummer:</b> AG12100	<b>Beobachtete Masse:</b> 87 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

### In Publikationen genannte Anwendungen:

IHC, WB

### Getestete Reaktivität:

Human, Maus, Ratte

### Zitierte Arten:

Human, Maus

### Positivkontrollen:

**WB:** HEK-293T-Zellen, HeLa-Zellen, HepG2-Zellen, Maushirngewebe, MCF-7-Zellen, Rattenhirngewebe

**IP:** Maushirngewebe,

**IHC:** humanes Mammakarzinomgewebe,

**IF:** A431-Zellen,

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

## Hintergrundinformationen

Delta 1-pyrroline-5-carboxylate synthetase (P5CS), also named as GSAS, P5CS, PYCS, catalyzes the ATP and the NAD(P)H-dependent conversion of L-glutamate to glutamic gamma-semialdehyde (GSA) which is the metabolic precursor for proline biosynthesis(PMID:8761662). This protein includes 2 domains: glutamate 5-kinase and gamma-glutamyl phosphate reductase. In the N-terminal section, it belongs to the glutamate 5-kinase family and in the C-terminal section, it belongs to the gamma-glutamyl phosphate reductase family. Defects in ALDH18A1 are the cause of cutis laxa, autosomal recessive, type 3A (ARCL3A)(PMID:18478038). It has 2 isoforms produced by alternative splicing.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Wei Liu	26598224	Sci Rep	WB
Emily J Kay	35760868	Nat Metab	WB
Chunhong Cui	34283311	Amino Acids	WB,IHC

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

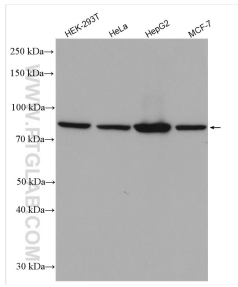
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

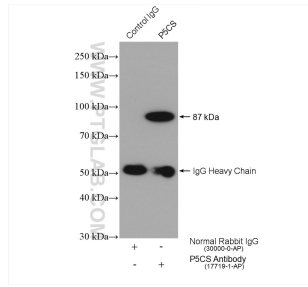
E: proteintech@ptglab.com  
W: ptglab.com

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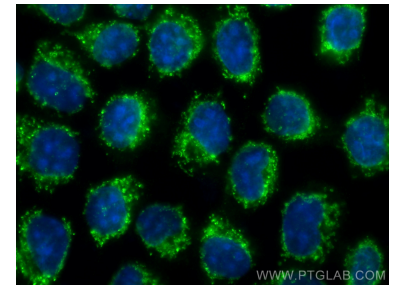
## Ausgewählte Validierungsdaten



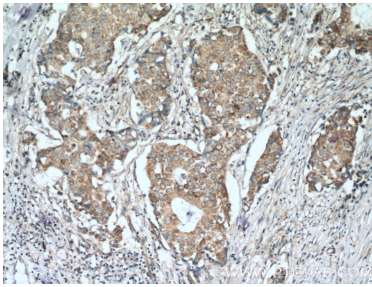
Various lysates were subjected to SDS PAGE followed by western blot with 17719-1-AP (P5CS antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



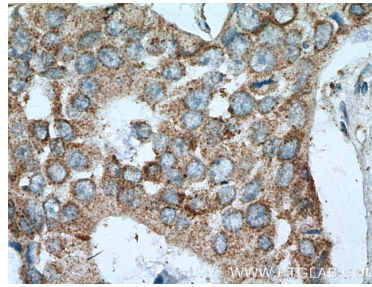
IP result of anti-P5CS (IP:17719-1-AP, 4 $\mu$ g; Detection:17719-1-AP 1:1000) with mouse brain tissue lysate 1600  $\mu$ g.



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using P5CS antibody (17719-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17719-1-AP (P5CS antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17719-1-AP (P5CS antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).