



Anti-Propionyl-Coenzyme A carboxylase (PCCA), Chicken-Polyclonal Antibody

Catalog No. PY-10042

Antigen species: Human

Host species: Chicken

Quantity: 100μg

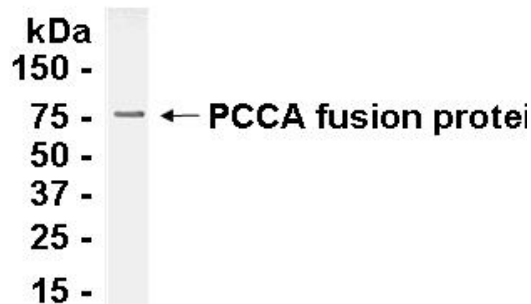
Reactivity: Human

Form: Antigen affinity purified antibody

Applications tested: Western Blot

Target description

This protein is a key enzyme in the catabolic pathway of odd-chain fatty acids, isoleucine, threonine, methionine, and valine. It is probably a dodecamer composed of six biotin-containing alpha subunits and six beta subunits. The protein is located in mitochondrial matrix. Defects in PCCA are the cause of propionic acidemia type I (PA-1) [MIM: 606054]. PA-1 is a life-threatening disease characterized by episodic vomiting, lethargy and ketosis, neutropenia, periodic thrombocytopenia, hypogammaglobulinemia, developmental retardation, and intolerance to protein.



Antigen

This polyclonal antibody was raised by immunizing chicken with PCCA fusion protein (450-703 amino acids).

Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining is 1:200. Optimal working dilutions must be determined by the end user.

Related Products

1. Anti-TEM1 pAb (GB-10374).
2. Anti-TEM2 pAb (GB-30131).
3. Anti-TEM3 pAb (GB-30132).
4. Anti-TEM4 pAb (GB-30133).
5. Anti-TEM5 pAb (GB-10011).

Western blot Protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 2,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1:1,000 for ECL (with 1% milk PBS-T) at R.T. for 1h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1xPBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

Clavero, S., Martinez, M.A., Perez, B., Perez-Cerda, C., Ugarte, M. and Desviat, L.R. Functional characterization of PCCA mutations causing propionic acidemia. *Biochim. Biophys. Acta* 1588 (2), 119-125 (2002).