For Research Use Only

ACLY Recombinant monoclonal antibody, PBS Only

Catalog Number:87231-1-PBS

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Basic Information

Catalog Number:
87231-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7709

GenBank Accession Number:
BC006195

GeneID (NCBI):
47

UNIPROT ID:
P53396

Full Name:
ATP citrate lyase

Calculated MW:
121 kDa

Observed MW:
120 kDa

Purification Method:
Protein A purification

CloneNo.:
252489F4

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

ACLY(ATP-citrate synthase) is also named as ACL. It is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA. ACLY serves as not only a target in oxygenated cells for suppression of lipid synthesis and histone acetylation, but also as a susceptible target in hypoxic cells to restore inhibition of glycolysis. In nonsmall cell lung carcinoma and hepatocellular carcinoma, ACLY is overexpressed compared with normal parenchyma suggesting that ACLY may represent a common target among highly malignant tumors(PMID:19795461).

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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
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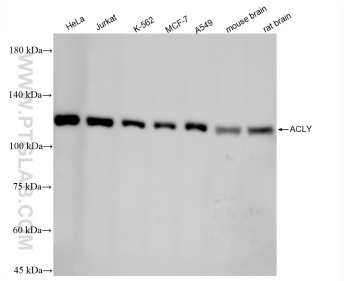
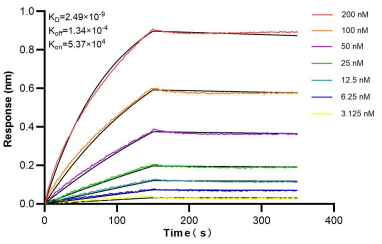
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87231-1-RR (ACLY antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87231-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87231-1-RR against Human ACLY were performed. The affinity constant is 2.49 nM.