

BCKDHA / BCKDE1A Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16498**Specification**

BCKDHA / BCKDE1A Antibody (C-Terminus) - Product Information

Application	IHC, WB, IF
Primary Accession	P12694
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50kDa KDa

BCKDHA / BCKDE1A Antibody (C-Terminus) - Additional Information**Gene ID** 593**Other Names**

2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial, 1.2.4.4, Branched-chain alpha-keto acid dehydrogenase E1 component alpha chain, BCKDE1A, BCKDH E1-alpha, BCKDHA

Target/Specificity

Human BCKDHA

Reconstitution & Storage

Aliquot and freeze at -20° C. Avoid freeze-thaw cycles.

Precautions

BCKDHA / BCKDE1A Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

BCKDHA / BCKDE1A Antibody (C-Terminus) - Protein Information**Name** BCKDHA ([HGNC:986](#))**Function**

Together with BCKDHB forms the heterotetrameric E1 subunit of the mitochondrial branched-chain alpha-ketoacid dehydrogenase (BCKD) complex. The BCKD complex catalyzes the multi-step oxidative decarboxylation of alpha-ketoacids derived from the branched-chain amino-acids valine, leucine and isoleucine producing CO₂ and acyl-CoA which is subsequently utilized to produce energy. The E1 subunit catalyzes the first step with the decarboxylation of the alpha-ketoacid forming an enzyme-product intermediate. A reductive acylation mediated by the lipoylamide cofactor of E2 extracts the acyl group from the E1 active site for the next step of the reaction.

Cellular Location

Mitochondrion matrix

Volume

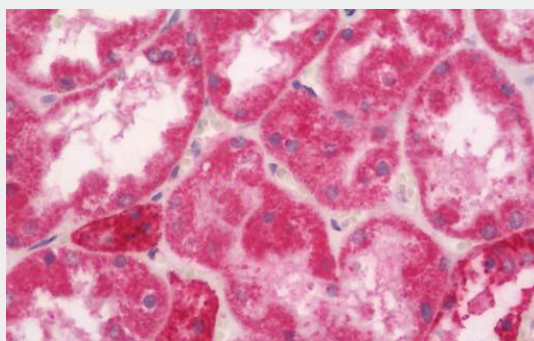
50 μ l

BCKDHA / BCKDE1A Antibody (C-Terminus) - Protocols

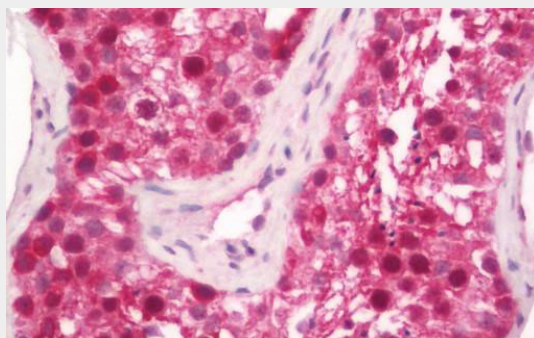
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

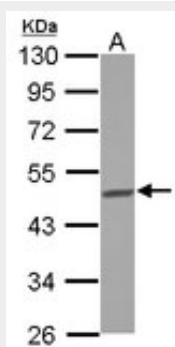
BCKDHA / BCKDE1A Antibody (C-Terminus) - Images



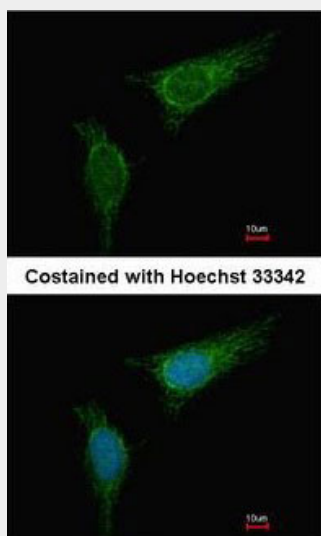
Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Sample (30 ug of whole cell lysate) A: HepG2 10% SDS PAGE BCKDHA antibody diluted at 1:1000



Immunofluorescence of methanol-fixed HeLa, using BCKDHA antibody at 1:500 dilution.

BCKDHA / BCKDE1A Antibody (C-Terminus) - Background

The branched-chain alpha-keto dehydrogenase complex catalyzes the overall conversion of alpha-keto acids to acyl-CoA and CO₂. It contains multiple copies of three enzymatic components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3).