abcam

ab125209

Anti-BCAT1 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.025% Sodium azide, 0.025% Thimerosal (merthiolate) Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Disodium hydrogenorthophosphate
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human BCAT1. The exact immunogen used to generate this antibody is proprietary information. Database link P54687
Purification technique	Affinity purification Immunogen
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	2-5 µg/mL
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Rat
Dilution info	2-5 µg/mL

Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Human
Dilution info	0.1-0.5 µg/mL
Notes	-

Species	Mouse
Dilution info	0.1-0.5 µg/mL
Notes	-

Species	Rat
Dilution info	0.1-0.5 µg/mL
Notes	-

Flow Cyt

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-

Notes	-

Target data

See full target information BCAT1

Function	Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

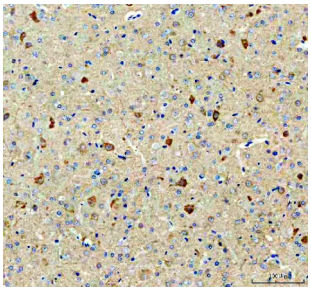
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

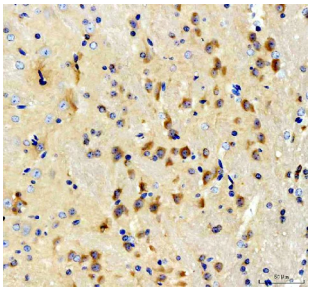
3 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCAT1 antibody (ab125209)

BCAT1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat brain tissue using rabbit Anti-BCAT1 antibody

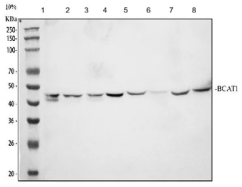
Immunohistochemical analysis of paraffin-embedded Rat brain tissue tissue labeling BCAT1 with ab125209 at 2 µg/ml. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-BCAT1 Antibody, ab125209, overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCAT1 antibody (ab125209)

BCAT1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse brain tissue using rabbit Anti-BCAT1 antibody

Immunohistochemical analysis of paraffin-embedded Mouse brain tissue tissue labeling BCAT1 with ab125209 at 2 µg/ml. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-BCAT1 Antibody, ab125209, overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



Western blot - Anti-BCAT1 antibody (ab125209)

BCAT1 Western blot staining using rabbit Anti-BCAT1 antibody

Blocking and diluting buffer and concentration: 5% non-fat milk/TBS

All lanes:
Western blot - Anti-BCAT1 antibody (ab125209) at 0.5 µg/mL

Lane 1:
Human Raji whole cell lysates at 30 µg

Lane 2:
Human Jurkat whole cell lysates at 30 µg

Lane 3:
Human MOLT-4 whole cell lysates at 30 µg

Lane 4:

Human Hela whole cell lysates at 30 µg

Lane 5:
Rat brain tissue lysates at 30 µg

Lane 6:
Rat kidney tissue lysates at 30 µg

Lane 7:
mouse brain tissue lysates at 30 µg

Lane 8:
Mouse kidney tissue lysates at 30 µg

Secondary

All lanes:
goat anti-rabbit IgG-HRP at 1/5000 dilution

Performed under reducing conditions.

Predicted band size: 43 kDa

Observed band size: 43 kDa

Exposure time: 2hr

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.