



Rabbit Anti-BAALC antibody

SL9849R

Product Name:	BAALC
Chinese Name:	脑和急性白血病胞浆蛋白抗体
Alias:	BAALC; BAALC_HUMAN; Brain and acute leukemia cytoplasmic; Brain and acute leukemia cytoplasmic protein; brain and acute leukemia, cytoplasmic; FLJ12015.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	19kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BAALC:10-110/180
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	BAALC is a 180 amino acid protein that localizes to both the membrane and the cytoplasm and exists as multiple alternatively spliced isoforms. Expressed by hematopoietic and neural cells, BAALC interacts with CaMKII and is thought to play a role in synaptic function at postsynaptic lipid rafts. BAALC may be overexpressed in acute myeloid leukemia (AML), suggesting a role in tumorigenesis. The gene encoding BAALC maps to human chromosome 8, which consists of nearly 146 million base

pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that maps to chromosome 8.

Function:

May play a synaptic role at the postsynaptic lipid rafts by interacting with CAMK2A (By similarity).

Subunit:

Interacts with CAMK2A (By similarity).

Subcellular Location:

Cytoplasm. Membrane. Postsynaptic lipid rafts.

Tissue Specificity:

Expressed by neural and hematopoietic cells. Expression is found both in normal early progenitor cells and in the most immature type of blasts in acute leukemia but not in mature hematopoietic cells. Isoform 2 and isoform 6 are expressed in the brain. Isoform 2 shows a low expression in neuroectoderm-derived tissues such as adrenal gland and no expression in bone marrow, peripheral blood lymphocytes or lymph nodes, or in tumors or cancer cell lines of nonneural tissue origin.

Post-translational modifications:

Palmitoylation and myristoylation target the protein to the lipid rafts (By similarity).

SWISS:

Q8WXS3

Gene ID:

79870

Database links:

[Entrez Gene: 79870](#)Human

[Omim: 606602](#)Human

[SwissProt: Q8WXS3](#)Human

[Unigene: 533446](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

--	--

www.sunlongbiotech.com