

**Goat Anti-BAALC Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1135a****Specification**

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**Goat Anti-BAALC Antibody - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">Q8WXS3</a>
Other Accession	<a href="#">NP_079088</a> , <a href="#">79870</a> , <a href="#">118452 (mouse)</a> , <a href="#">140720 (rat)</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Rat, Pig</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>100ug/200ul</b>
Isotype	<b>IgG</b>
Calculated MW	<b>15551</b>

**Goat Anti-BAALC Antibody - Additional Information****Gene ID** 79870**Other Names**

Brain and acute leukemia cytoplasmic protein, BAALC

**Dilution**

WB~~1:1000

Pep-ELISA~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-BAALC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-BAALC Antibody - Protein Information****Name** BAALC {ECO:0000303|PubMed:11707601}**Function**

May play a synaptic role at the postsynaptic lipid rafts possibly through interaction with CAMK2A.

**Cellular Location**

Cytoplasm. Synapse, synaptosome {ECO:0000250|UniProtKB:Q920K5}. Membrane raft {ECO:0000250|UniProtKB:Q920K5}. Postsynaptic density {ECO:0000250|UniProtKB:Q920K5}. Note=In neurons, localizes to postsynaptic lipid rafts (By similarity). In myocardial and skeletal muscle cells, localizes to the cytoplasm adjacent to the inner cell membrane, polarized to one end of the myocyte (By similarity) {ECO:0000250|UniProtKB:Q8VHV1, ECO:0000250|UniProtKB:Q920K5}

**Tissue Location**

Predominantly expressed in neuroectoderm-derived tissues. Expressed in the brain and spinal cord, and at low levels, in the adrenal gland. In the bone marrow, confined to the CD34+ progenitor cells. Not found in peripheral blood mononuclear cells, nor lymph nodes. Tends to be expressed at high levels in acute myeloid leukemia and glioblastoma cells.

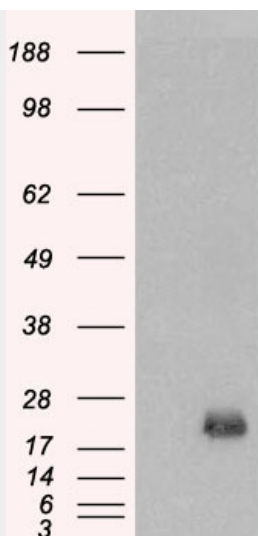
**Goat Anti-BAALC Antibody - Protocols**

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

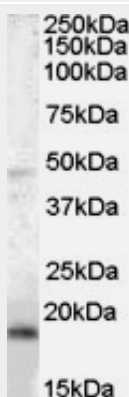
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-BAALC Antibody - Images**

AF1135a (0.03 µg/ml) staining of mouse brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



HEK293 overexpressing BAALC (RC203701) and probed with AF1135a (mock transfection in first lane), tested by Origene.



EB06967 (0.03µg/ml) staining of mouse brain lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-BAALC Antibody - Background

This gene was identified by gene expression studies in patients with acute myeloid leukemia (AML). The gene is conserved among mammals and is not found in lower organisms. Tissues that express this gene develop from the neuroectoderm. Multiple alternatively spliced transcript variants that encode different proteins have been described for this gene; however, some of the transcript variants are found only in AML cell lines.

### Goat Anti-BAALC Antibody - References

BAALC-associated gene expression profiles define IGFBP7 as a novel molecular marker in acute leukemia. Heesch S, et al. Leukemia, 2010 Aug. PMID 20535151.

Prognostic significance of CEBPA mutations and BAALC expression in acute myeloid leukemia Egyptian patients with normal karyotype. El-Sharnouby JA, et al. Egypt J Immunol, 2008. PMID 20306678.

High BAALC expression predicts chemoresistance in adult B-precursor acute lymphoblastic leukemia. Kihl A, et al. Blood, 2010 May 6. PMID 20065290.

BAALC is an important predictor of refractoriness to chemotherapy and poor survival in intermediate-risk acute myeloid leukemia (AML). Santamaría C, et al. Ann Hematol, 2010 May. PMID 19943049.

BAALC and ERG expression in acute myeloid leukemia with normal karyotype: impact on prognosis.

Eid MA, et al. Int J Lab Hematol, 2010 Apr. PMID 19555438.