

AML SIGNALING PATHWAY

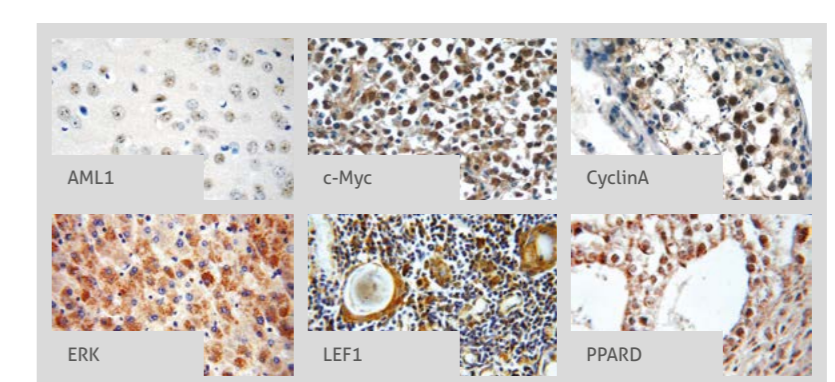
Acute myeloid leukemia is the most common manifestation of leukemia in adults. Clinically, it can be subdivided into nine different morphological classes (see right). Whatever the class, all forms of AML are characterized by overgrowth of white blood cells in the bone marrow. Like many other cancers, AML pathogenesis requires constitutively activated signal transduction pathways. In AML, the most frequently mutated targets are FLT3, N-Ras, K-Ras, and Kit. Unique to AML, however, are mutations of myeloid transcription factors, including PU.1, C/EBPα, and AML1. Point mutations, truncations, and fusions of these genes have all been observed in patients and contribute to the dysregulation of white blood cells.

Morphologic Classes of Acute Myeloid Leukemia

- Acute myeloblastic leukemia with minimal differentiation (M0)
- Acute myeloblastic leukemia without maturation (M1)
- Acute myeloblastic leukemia without maturation (M2)
- Acute promyelocytic leukemia (M3)
- Acute myelomonocytic leukemia (M4)
- Acute myelomonocytic leukemia with abnormal eosinophils (M4Eo)
- Acute monocytic leukemia (M5)
- Erythroleukemia (M6)
- Acute megakaryocytic leukemia (M7)

RELATED PRODUCTS

Antibody Name	Catalog Number	Type	Applications
AML1	15494-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
BAD	10435-1-AP	Rabbit Poly	ELISA, IHC, WB
C/EBPα/CEBPA	18311-1-AP	Rabbit Poly	ELISA, IP, WB
c-KIT	18696-1-AP	Rabbit Poly	ELISA, FC, IHC, WB
c-Myc	10828-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
CyclinA1	13295-1-AP	Rabbit Poly	ELISA, IHC, WB
ERK (MAPK1)	16443-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
ERK (MAPK1)	51068-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
GRB2	10254-2-AP	Rabbit Poly	ELISA, IF, IHC, WB
HRAS (RAS)	18295-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
JUP	11146-1-AP	Rabbit Poly	ELISA, IHC, WB
KRAS (2A-Specific)	16156-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
KRAS (2B-Specific)	16155-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
LEF1	14972-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
MAP2K1 (MEK1/2)	51080-1-AP	Rabbit Poly	ELISA, IHC
NFκB	14220-1-AP	Rabbit Poly	ELISA, IF, IP, WB
NRAS	10724-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
PI3K	13229-1-AP	Rabbit Poly	ELISA, WB
PPARδ	10156-1-AP	Rabbit Poly	ELISA, IHC, WB
RAF	51140-1-AP	Rabbit Poly	ELISA, IHC, WB
RARA	10331-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
STAT3	51075-2-AP	Rabbit Poly	ELISA, IHC, WB



This number shows the amount of times our antibody has been cited in a publication.

Legend	Association
→	Directly Activates
----->	Indirectly Activates
⊥	Inhibits
Ⓢ	Phosphorylates

For more information or other pathways visit ptglab.com

CONTACT DETAILS

www.ptglab.com

PROTEINTECH GROUP
US Head Office
A: Proteintech Group, Inc.
5400 Pearl Street,
Rosemont, IL, 60018,
USA
T: 1 (888) 4PTGLAB,
(1-888-478-4522)
(toll free in USA),
or 1(312) 455-8498
(outside USA)
F: 1 (312) 455-8408
E: proteintech@ptglab.com

PROTEINTECH EUROPE
United Kingdom
A: Proteintech Europe, Inc.
4th Floor
196 Deansgate
Manchester
M3 3WF
T: +44 (161) 839-5007
F: +44 (161) 241-3103
E: europe@ptglab.com

PROTEINTECH
China Office
A: Wuhan Sanying Biotechnologies,
D3-3, No.666 Gaoshui Avenue,
Development Zone
Wuhan, Hubei, P.R.C.
T: 027-87531629
or 4006-900-926
F: 027-87531627
E: service@ptglab.com

