

# AR42J | 500478

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**Description**

AR42J is a cell line derived from a patient with acute myeloid leukemia (AML). It is characterized by a high degree of heterogeneity and is used for studying drug resistance and the effects of various treatments. The cell line is maintained in suspension culture and is highly sensitive to chemotherapy. AR42J cells are used in preclinical studies to evaluate the efficacy of novel drugs and to understand the mechanisms of drug resistance in AML. The cell line is highly sensitive to various chemotherapeutic agents, including cytarabine, daunorubicin, and idarubicin. AR42J cells are also used to study the effects of targeted therapies and to investigate the role of various signaling pathways in drug resistance. The cell line is highly sensitive to various chemotherapeutic agents, including cytarabine, daunorubicin, and idarubicin. AR42J cells are also used to study the effects of targeted therapies and to investigate the role of various signaling pathways in drug resistance.

**Organism** *Human*

**Tissue** Bone Marrow

**Disease** Acute Myeloid Leukemia

**Synonyms** AR4-2J, AR-42J, AR-42J

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**Morphology** Adherent

**Growth properties** AR42J cells are highly sensitive to chemotherapy and are used to study drug resistance. The cell line is highly sensitive to various chemotherapeutic agents, including cytarabine, daunorubicin, and idarubicin. AR42J cells are also used to study the effects of targeted therapies and to investigate the role of various signaling pathways in drug resistance.

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**Citation** AR42J (ATCC CCL-222) | 500478

**Biosafety level** 1

**NCBI\_TaxID** 10116

**CellosaurusAccession** CVCL\_0143

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**Receptors expressed** AR42J cells express various receptors, including CD33, CD123, and CD34. The cell line is highly sensitive to various chemotherapeutic agents, including cytarabine, daunorubicin, and idarubicin. AR42J cells are also used to study the effects of targeted therapies and to investigate the role of various signaling pathways in drug resistance.



