

**TF-1 | 300434**

**General Information**

**Description** TF-1 is a T cell line derived from a 35-year-old male patient with T cell acute leukemia. It is a CD4+ CD8- T cell line that expresses high levels of CD4, CD25, and CD45RO. The cells are highly proliferative and are used for studying T cell activation and differentiation.

**Organism** Human

**Tissue** T cells

**Disease** T cell acute leukemia

**Applications** TF-1 is used for studying T cell activation and differentiation. It is a valuable tool for investigating the molecular and cellular mechanisms of T cell development and function.

**Synonyms** TF1, MFD-1

**Characteristics**

**Age** 35 years

**Gender** Male

**Ethnicity** German

**Morphology** T cells

**Growth properties** T cells

**Identification**

**Citation** TF-1 (ATCC CCL-220) | 300434

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_0559

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## Characteristics

**Receptors expressed** p.Gln61Pro p.Ile251Thrfs\*94

**Mutational profile**

## Media

**Culture Medium** RPMI 1640 2.1 2.0 NaHCO3 (820700a)

**Supplements** 10% FBS 5% GM-CSF

**Doubling time** 39 +/- 6 22 ~70

**Subculturing** 5 5 6

**Seeding density** > 2 x 10<sup>5</sup>

**Fluid renewal** 2 3

**Freeze medium** FBS + 10% DMSO



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XXXXXXXX HLA

**A\***: '02:01:01, '33:03:01

**B\***: '44:03:01, '51:01:01

**C\***: '01:02:01, '14:03:01

**DRB1\***: '09:01:02G, '13:02:01

**DQA1\***: '01:02:01, '03:02:01

**DQB1\***: '03:03:02, '06:04:01

**DPB1\***: '02:01:02, '04:01:01

**E**: '01:01:01, '01:03:01