

# FLT3 (Human) Cell-Based ELISA Kit

Catalog # KA2867

Size 1 Kit

## Specification

|                            |                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | FLT3 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of FLT3 expression in cultured cells. |
| <b>Suitable Sample</b>     | Attached Cell, Loosely Attached Cell, Suspension Cell                                                                                          |
| <b>Label</b>               | HRP-conjugated                                                                                                                                 |
| <b>Detection Method</b>    | Colorimetric                                                                                                                                   |
| <b>Assay Type</b>          | Qualitative                                                                                                                                    |
| <b>Reactivity</b>          | Human, Mouse                                                                                                                                   |
| <b>Regulation Status</b>   | For research use only (RUO)                                                                                                                    |
| <b>Storage Instruction</b> | Store the kit at 4°C.                                                                                                                          |

## Applications

- Qualitative

## Gene Info — FLT3

|                           |                               |
|---------------------------|-------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">2322</a>          |
| <b>Protein Accession#</b> | <a href="#">P36888</a>        |
| <b>Gene Name</b>          | FLT3                          |
| <b>Gene Alias</b>         | CD135, FLK2, STK1             |
| <b>Gene Description</b>   | fms-related tyrosine kinase 3 |

Omim ID [136351 601626](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. The receptor consists of an extracellular domain composed of five immunoglobulin-like domains, one transmembrane region, and a cytoplasmic kinase domain split into two parts by a kinase-insert domain. The receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia. [provided by RefSeq]

**Other Designations**

CD135 antigen|FL cytokine receptor|FLT3 receptor tyrosine kinase|OTTHUMP00000042340|fetal liver kinase 2|growth factor receptor tyrosine kinase type III|stem cell tyrosine kinase 1|tyrosine-protein kinase receptor FLT3

## Pathway

- [Acute myeloid leukemia](#)
- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Pathways in cancer](#)

## Disease

- [Acute Disease](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Chromosome Aberrations](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Down Syndrome](#)
- [Edema](#)

- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Leukocytosis](#)
- [Lymphoproliferative Disorders](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasm](#)
- [Neovascularization](#)
- [Noonan Syndrome](#)
- [Osteoporosis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Recurrence](#)
- [Tobacco Use Disorder](#)
- [Translocation](#)