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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Flt-3/Flk-2 (m): 293T Lysate: sc-178618

### BACKGROUND

Stem cell tyrosine kinase (STK-1) has been cloned from a CD34<sup>+</sup> hematopoietic stem cell enriched library and identified as the human homolog of a previously identified gene of mouse origin designated either Flk-2 or Flt-3. The STK-1 cDNA encodes a protein of 993 amino acids with 85% identity to Flt-3/Flk-2. STK-1 is a member of the type III receptor tyrosine kinase family that includes Kit (steel factor receptor), Fms and PDGF. STK-1 expression in blood and marrow is restricted to CD34<sup>+</sup> cells, a population greatly enriched for hematopoietic stem/progenitor cells. STK-1 antiserum recognizes two polypeptides in these cells. The mouse homolog of STK-1, designated Flt-3/Flk-2, is expressed at high levels in hematopoietic cells and also in neural, gonadal, hepatic and placental tissues. It has been suggested that STK-1 and its murine homolog Flt-3/Flk-2 may function as growth factor receptors on hematopoietic stem and/or progenitor cells.

### REFERENCES

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4. Lyman, S.D., James, L., Zappone, J., Sleath, P.R., Beckmann, M.P. and Bird, T. 1993. Characterization of the protein encoded by the FLT3 (FLK2) receptor-like tyrosine kinase gene. *Oncogene* 8: 815-822.
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6. Small, D., Levenstein, M., Kim, E., Carow, C., Amin, S., Rockwell, P., Witte, L., Burrow, C., Ratajczak, M.Z., Gewirtz, A.M. and Civin, C.I. 1994. STK-1, the human homolog of Flk-2/Flt-3, is selectively expressed in CD34<sup>+</sup> human bone marrow cells and is involved in the proliferation of early progenitor/stem cells. *Proc. Natl. Acad. Sci. USA* 91: 459-463.

### CHROMOSOMAL LOCATION

Genetic locus: Flt3 (mouse) mapping to 5 G3.

### PRODUCT

Flt-3/Flk-2 (m): 293T Lysate represents a lysate of mouse Flt-3/Flk-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### APPLICATIONS

Flt-3/Flk-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Flt-3/Flk-2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.