

14-515ACL: VEGFR2 Stable Cell Line-HEK293

Application : Functional Assay

Description

VEGFR2 Stable Cell Line-H is a stably transfected HEK293 cell line which expresses human vascular endothelial growth factor receptor 2 (VEGFR2, also known as CD309, KDR and FLT-1).

Sequence data: hVEGFR2 (accession number NP_002244)

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MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIK
ANTTLQITCRGQRDLDWLWPNNSQSGSEQRVEVTECSDFCKTLTIPKVI
GNDTGAYKCFYRETDLASVIYVYVQDYRSPFIASVSDQHGVVYITENKN
KTVVIPCLGSGISNLNVS LCARYPEKRFVDPGNRISWDSKKGFTIPSYMIS
YAGMVCFCEAKINDESYQSIMYIVVV VGYRIYDVVLSPSHGIELSVGE
KLVLNCTARTELVNGIDFNWEYPSKHKHKKLVNRD LKTQSGSEMKKFL
STLTIDGVTRSDQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGS
GMESLVEATVGERVRIPAKYLGYPPEIKWYKNGIPLSNHTIKAGHVLT
IMEVSERD TGNYTVILTNPISKEKQSHVVSLLVYVPPQIGEKSLISPVDS
YQYGTQTTLCTVYAI PPPHHIHWWQLEEECANEPSQAVSVTNPYPCEE
WRSVEDFQGGNKIEVNKNQFALIE GKNKTVSTLVIQAANVSALYKCE
AVNKVGRGERVISFHVTRGPEITLQPDMPQTEQES VSLWCTADRSTFEN
LTWYKLGQPPLPIHVGELPTPVCKNLDTLWKLNATMFSNSTNDI
LIMELKNASLQDQGDYVCLAQDRKTKKRHCVVRQLTVLERVAPTITGN
LENQTTSIGE SIEVSTASGNPPPQIMWFKDNETLVEDSGIVLKDGNRNL
TIRRVKEDGLYTCQAC SVLGC AKVEAFFIIEGAQEKTNLEIIILVGTAVI
AMFFWLLLVIILRTVKRANGGELK TGYSIVMDPDELPLDEH CERLPYD
ASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGI DKTATCRTVAVKMLKE
GATHSEHRALMSELKILIHIGHHLNVVNLGACTKPGGPLMV IVEFCKFG
NLSTYLRSKRNEFVYPYKTKGARFRQGKDYVGAIPVDLKRRLDSITSSQ
SS ASSGFVEEKSLSDVEEEEAPEDLYKDFLTLEHLICYSFQVAKGMEFL
ASRKC IHRDLA ARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARL
PLKWMAPETIFDRVYTIQSDV WSGVLLWEIFSLGASPYPGVKIDEEF
CRRLKEGTRMRAPDYTTPEMYQTMDCWHGE PSQRPTFSELVEHLGNLL
QANAQQDGKDYIVLP ISETLSMEEDSGLSLPTSPVSCMEE EEVCDPK
FHYDNTAGISQYLQNSKRKSRPVSVKTFEDIPLLEEPEVKVIPDDNQTD
SGM VLASEELKTLEDRTKLSPSFGGMVPSKSRVASEGSNQTSQYQSGY
HSDDTDTTVYS SEEAELLKIEIGVQTGSTAQILQPDSGTTLSSPPV
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Product Info

Amount : 1 Vial
Content : Each vial contains 2 ~ 3 x 10⁶ cells in 1 ml of 90% FBS + 10% DMSO
Storage condition : Immediately upon receipt, store in liquid nitrogen.

Application Note

Application:.

- Screen for antibodies of human VEGFR2 through Flow Cytometry.

Culture conditions:

Cells should be grown at 37°C with 5% CO₂ using DMEM medium (w/ L-Glutamine, 4.5g/L Glucose and Sodium Pyruvate) supplemented with 10% heat-inactivated FBS and 1% Pen/Strep, plus 200 µg/ml of Hygromycin.

It is recommended to quickly thaw the frozen cells upon receipt or from liquid nitrogen in a 37°C water-bath, transfer to a tube containing 10 ml of growth medium without Hygromycin, spin down cells, resuspend cells in pre-warmed growth medium without Hygromycin, transfer resuspended cells to T25 flask and culture in 37°C-CO₂ incubator.

Leave the T25 flask in the incubator for 1~2 days without disturbing or changing the medium until cells completely recover viability and become adherent. Once cells are over 90% adherent, remove growth medium and passage the cells through trypsinization and centrifugation. At first passage, switch to growth medium containing Hygromycin. Cells should be split before they reach complete confluence.

To passage the cells, detach cells from culture vessel with Trypsin/EDTA, add complete growth medium and transfer to a tube, spin down cells, resuspend cells and seed appropriate aliquots of cells suspension into new culture vessels. Subcultivation ration = 1:10 to 1:20 weekly. To achieve satisfactory results, cells should not be passaged over 16 times.

LIMITED USE RESTRICTIONS:

THIS PRODUCT IS SOLELY FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

By use of this product, user agrees to be bound by the terms of this limited use statement.

This product is solely for Internal Research Purposes and not for Commercial Purposes. Commercial Purposes include, but are not limited to (1) use of the cell line in manufacturing; (2) use of the cell line to provide a service, information

or data; (3) use of the cell line for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the cell line whether or not such cell lines are resold for use in research. The buyer cannot sell, give or otherwise transfer this product to a third party.

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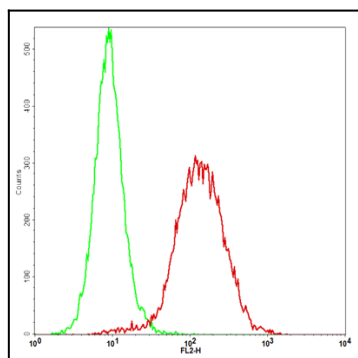


Fig-1: Detection of human VEGFR2 in the HEK293/VEGFR2 stable cell line by Flow Cytometry [Cell surface staining]. HEK293 cells (Green); HEK293/VEGFR2 cells (Red).