

Human SCF Recombinant Protein

Product Details

Size	100 µg
Species	Human
Published Species	Human
Expression system	E. coli
Amino acid sequence	EGICRNRVTN NVKDVTKLVA NLPKDYMITL KYVPGMDVLP SHCWISEMVV QLSDSLTDLL DKFSNISEGL SNYSIIDKLV NIVDDLVECV KENSSKDLKK SFKSPEPRLF TPEEFFRIFN RSIDAFKDFV VASETSDCVV SSTLSPEKDS RVSVTKPFML PPVA
Molecular weight	18.54 kDa
Class	Recombinant
Type	Protein
Purity	>95% by SDS-PAGE
Endotoxin concentration	<0.1 ng/µg
Activity	ED50 < 10 ng/mL; determined by the dose-dependent proliferation of human MO-7e cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	sequential chromatography
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	Assay-dependent	5 Publications
Control (Ctrl)	Assay-dependent	-

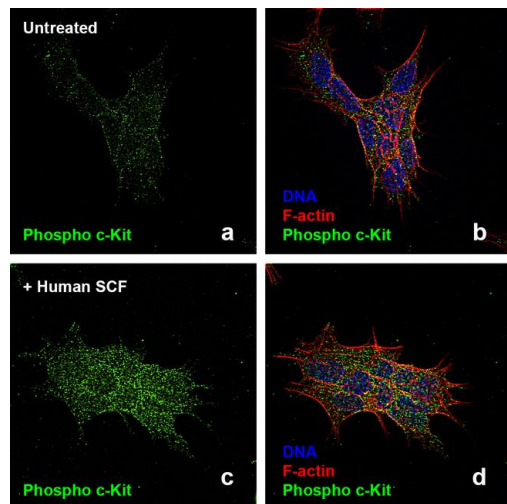
Product Specific Information

Carrier-Free

Reconstitution: Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile deionized water to 0.1-1.0 mg/mL to regain full activity. Make any further dilutions of the reconstituted protein in low endotoxin medium or buffered solution with FBS or tissue culture grade BSA.

Storage: Store the lyophilized protein at 2-8°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at -20°C (not in a frost-free freezer). Avoid repeated freeze-thaw cycles

Product Images For Human SCF Recombinant Protein

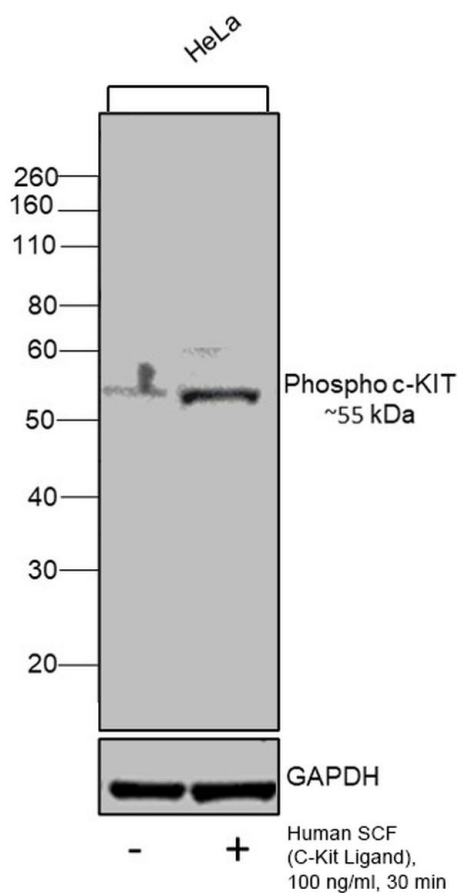


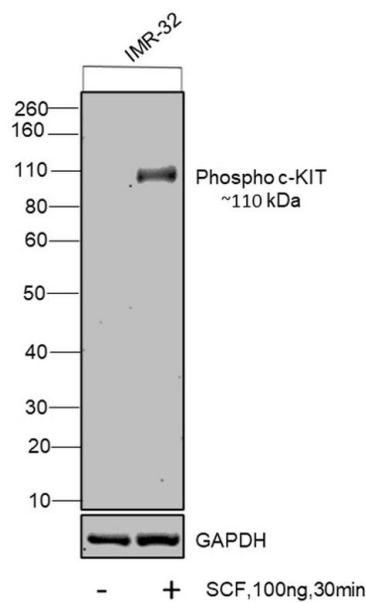
Human SCF Protein (PHC2111) in FN

Immunofluorescence analysis of mast/stem cell growth factor receptor Kit (c-Kit) was performed using HT-29 cells treated with 100 ng/mL of human SCF (c-Kit ligand) recombinant Pprotein (Product # PHC2113) for 30 minutes. Cells labeled with anti-phospho-c-Kit (Tyr703) recombinant polyclonal antibody (22HCLC) (Product # 710762) (Panel a & c; Green). The composite (b & d) represents merged image with DAPI (blue) and F-actin (red) staining. Cells treated with SCF displayed upregulation of phospho-c-Kit (Tyr703) in comparison with untreated cells. The images were captured at 60X magnification.

Human SCF Protein (PHC2111) in FN

HeLa cells treated with 100 ng/mL of human SCF (c-Kit ligand) recombinant protein (Product # PHC2113) for 30 minutes. A western blot was performed using anti-phospho-c-Kit (Tyr703) recombinant polyclonal antibody (22HCLC) (Product # 710762) and a 55 kDa band corresponding to c-Kit phosphorylation was observed to be upregulated upon treatment. GAPDH was used as a loading control.





Human SCF Protein (PHC2111) in FN

IMR-32 cells treated with 100 ng/mL of human SCF (c-Kit ligand) recombinant protein (Product # PHC2113) for 30 minutes. A western blot was performed using anti-phospho-c-kit (Tyr703) monoclonal antibody (G.813.2) (Product # MA5-14830) and a 110 kDa band corresponding to c-Kit phosphorylation was observed to be upregulated upon the treatment. GAPDH was used as a loading control.

5 References

Functional Assay (5)

Stem cell research

Generation of induced pluripotent stem cells (NIMHi002-A and NIMHi003-A) from two sporadic Parkinson's disease patient of East Indian ethnicity.

Authors: Datta I, Jagtap S, Yadav R, Pal PK

Year
2020

Species
Human

Dilution
100 ng/mL

Stem cell research

Generation of induced pluripotent stem cells (NIMHi001-A) from a Parkinson's disease patient of East Indian ethnicity carrying LRRK2 I1371V variant.

Authors: Datta I, Jagtap S, Potdar C, Yadav R, Pal P

Year
2020

Species
Human

Dilution
100 ng/mL

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