abcam

Product datasheet

Human CXCR4 knockout HeLa cell lysate ab263844

1 图**像**

概述

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Knockout cell lysate achieved by CRISPR/Cas9.Parental Cell LineHeLaOrganismHumanMutation descriptionKnockout achieved by using CRISPR/Cas9, Homozygous: 1 bp insertion in exon 2.Passage number<20Knockout validationSanger SequencingReconstitution notesTo use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a fir concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0. DTT. 'Usage of SDS sample buffer is not recommended with these lyophilized lysates.WMLysate preparation: Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). This means that the protein of interest is denatured. If you require a native form of the protein please use the live of version - found here. Please refer to our lysis protocol for further details on how our lysates are propared.Core for short-term storage or -80°C for long-term storage.Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. See here for more information on knockout cell lysates.Kis the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their interded uses.This product is subject to limited use licenses from The Broad Institute, ERS Genomics Limited and sigma-Aldrich Co. LLC, and is developed with patented technology. For full details of the	产品名称	人CXCR4 knockout HeLa cell裂解物
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存放说明

Store at -80°C. Please refer to protocols.

组 件	1 kit	
ab255487 - Human CXCR4 knockout HeLa cell lysate		1 x 100µg
ab255552 - Human wild-type HeLa cell lysate		1 x 100µg
Cell type	epithelial	
Disease	Adenocarcinoma	
Gender	Female	
STR Analysis	Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 vWA: 16, 18 TH01: 7 TPOX: 8, 12 CSF1PO: 9, 10	

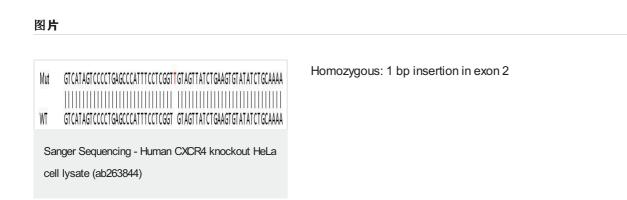
靶标

功能	Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ions levels and enhancing MAPK1/MAPK3 activation. Acts as a receptor for extracellular ubiquitin; leading to enhance intracellular calcium ions and reduce cellular cAMP levels. Involved in haematopoiesis and in cardiac ventricular septum formation. Plays also an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Could be involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus.
组织 特异性	Expressed in numerous tissues, such as peripheral blood leukocytes, spleen, thymus, spinal cord, heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, cerebellum, cerebral cortex and medulla (in microglia as well as in astrocytes), brain microvascular, coronary artery and umbilical cord endothelial cells. Isoform 1 is predominant in all tissues tested.
疾病相关	Defects in CXCR4 are a cause of WHIM syndrome (WHIM) [MIM:193670]; also known as warts, hypogammaglobulinemia, infections and myelokathexis. WHIM syndrome is an immunodeficiency disease characterized by neutropenia, hypogammaglobulinemia and extensive human papillomavirus (HPV) infection. Despite the peripheral neutropenia, bone marrow aspirates from affected individuals contain abundant mature myeloid cells, a condition termed myelokathexis.
序列相似性	Belongs to the G-protein coupled receptor 1 family.
结 构域	The amino-terminus is critical for ligand binding. Residues in all four extracellular regions contribute to HIV-1 coreceptor activity.
翻译后修 饰	 Phosphorylated on agonist stimulation. Rapidly phosphorylated on serine and threonine residues in the C-terminal. Phosphorylation at Ser-324 and Ser-325 leads to recruitment of ITCH, ubiquitination and protein degradation. Ubiquitinated by ITCH at the cell membrane on agonist stimulation. The ubiquitin-dependent mechanism, endosomal sorting complex required for transport (ESCRT), then targets CXCR4 for lysosomal degradation. This process is dependent also on prior Ser-/Thr-phosphorylation in the C-terminal of CXCR4. Also binding of ARRB1 to STAM negatively regulates CXCR4 sorting to lysosomes though modulating ubiquitination of SFR5S. Sulfation on Tyr-21 is required for efficient binding of CXCL12/SDF-1alpha and promotes its dimerization.

O- and N-glycosylated. Asn-11 is the principal site of N-glycosylation. There appears to be very little or no glycosylation on Asn-176. N-glycosylation masks coreceptor function in both X4 and R5 laboratory-adapted and primary HIV-1 strains through inhibiting interaction with their Env glycoproteins. The O-glycosylation chondroitin sulfate attachment does not affect interaction with CXCL12/SDF-1alpha nor its coreceptor activity.

细胞定位

Cell membrane. In unstimulated cells, diffuse pattern on plasma membrane. On agonist stimulation, colocalizes with ITCH at the plasma membrane where it becomes ubiquitinated.



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