CD6-RFP Jurkat cell line

Catalogue number: 160713

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

*FOR RESEARCH USE ONLY

Name: CD6-RFP Jurkat cell line

Alternate name: CD6

Class: Conjugate:

Cancer Tools.org **Description:** Activation of the T cell receptor (TCR) on the T cell through ligation with antigen-MHC complex of an antigen-presenting cell (APC) is an essential process in the activation of T cells and induction of the subsequent adaptive immune response. Upon activation, the TCR, together with its associated co-receptor CD3 complex, assembles in signaling microclusters that are transported to the center of the organizational structure at the T cell-APC interface termed the immunological synapse (IS). During IS formation, local cell surface receptors and associated intracellular molecules are reorganized, ultimately creating the typical bull's eye-shaped pattern of the IS. CD6 is a surface glycoprotein receptor, which has been previously shown to associate with CD3 and co-localize to the center of the IS in static conditions or stable T cell-APC contacts.

Purpose:

Parental cell: Jurkat E6.1

Organism: Human

Tissue: Blood

Model: Gender: Isotype: Reactivity: Selectivity: Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Jurkat cell lines stably expressing CD6-RFP were obtained by electroporation using the Neon Transfection System for Electroporation (Invitrogen) according to the manufacturer's guidelines. Shortly, 5*105 Jurkat cells were transfected at 1325 Volt (10 ms, 3 pulses) with 3 Ä?Â?Ä???g of DNA in 100 Ä?Â?Ä???I Resuspension buffer. After transfection cells were seeded in 2 ml of 1640 RPMI with 10% FCS and 1% U-glut. Antibiotics were added after 3 h. Stable cell lines were sorted on RFP expression on...

Formulation:

Recommended controls: Bacterial resistance: Selectable markers: Additional notes:

Target details

Target: Cluster of Differentiation 6 labelled with RFP, CD6-RFP Cancer Tools.org

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen Concentration: Passage number:

Growth medium: 1640 RPMI (PAA) supplemented with 10% Fetal Calf Serum, 1 mM Ultra-glutamine and antibiotics (100 U/ml penicillin, 100 ?g/ml streptomycin and 0.25 ?g/ml amphotericin B). 500 ng/ml

geneticin.

Temperature: **Atmosphere:**

Volume:

Storage medium:

Storage buffer:

Storage conditions: **Shipping conditions:** Dry ice

Related tools

Related tools: CD6-GFP Jurkat cell line cell line; CD6-LifeAct-GFP Jurkat cell line cell line

References

References: Schoberer et al. 2019. Plant Physiol. 180(2):859-873. PMID: 30971450.

