

U-2 OS Gal4-p300 Cell Line

Catalogue number: 151579

Sub-type: Continuous

Images:

Contributor

Inventor: Yili Yin

Institute: University of Dundee

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: U-2 OS Gal4-p300 Cell Line

Alternate name:

Class:

Conjugate:

Description: U2-OS cells expressing Gal4-p300. p300 is a transcriptional coactivator that functions as integrator of numerous signaling pathways and are utilized by many DNA binding proteins to facilitate transcriptional activation. p300 shares numerous conserved domains with CREB binding protein (CBP), which is also a transcriptional coactivator. These shared domains include a histone acetyl transferase (HAT) domain, a bromo domain, and three cysteine- and histidine-rich domains. CBP also interacts with the RNA polymerase II holoenzyme and p300/CBP both contain transcriptional activation domains that function independently of HAT activity.

Purpose:

Parental cell: U-2 OS

Organism: Human

Tissue:

Model: Transgenic

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

U2-OS cells were co-transfected with both the Gal4p300CRD1 expression vector (zeocin selection marker, backbone: pcDNA4/TO) and the Gal4-E1B-luciferase reporter vector (neomycin selection marker, backbone: pCG4 without the CMV promoter) using Fugene 6 transfection reagent. 24 hours after transfection, stable transfectants were selected using G418 3.0 mg /ml and Zeocin 3.0 mg/ml until massive cell death, and then grown under G418 0.5 mg /ml and Zeocin 0.5 mg/ml for further selection. Establishe...

Formulation:

Recommended controls: U-2 OS parental line

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Gal4-p300

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: DMEM plus 10% Foetal Bovine Serum and 1% Penicillin-Streptomycin

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Vapor phase of liquid nitrogen. Storage at -70° C will result in loss of viability.

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Yang et al. 2007. Cell. 131(5):873-86. PMID: 18045533. ; Trex1 exonuclease degrades ssDNA to prevent chronic checkpoint activation and autoimmune disease. ; Morita et al. 2004. Mol Cell Biol. 24(15):6719-27. PMID: 15254239. ; Gene-targeted mice lacking the Trex1 (DNase III) 3'-->5' DNA exonuclease develop inflammatory myocarditis.

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