

# 2C4-Gamma2A cell line

**Catalogue number:** 154234

**Sub-type:** Continuous

**Images:**

## Contributor

**Inventor:** George Stark ; Ian Kerr

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**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** 2C4-Gamma2A cell line

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** Mutant gamma2A cells retain a wild-type interferon (IFN)-alpha/beta response (e.g., class I HLA Binding of IFN-gamma to gamma2A cells is normal), but the cells lack detectable JAK2 mRNA and protein and are completely defective in all aspects of the IFN-gamma response. More specifically, they are defective in IFN-gamma inducible activation of the JAK/STAT pathway, gene expression, and an antiviral state with respect to encephalomyocarditis (EMC) virus. In all cases, JAK2 (but not JAK1 or Tyk2 ...

**Purpose:**

**Parental cell:** 2C4 cell line (a derivative of HT 1080 cell line)

**Organism:** Human

**Tissue:**

**Model:** Mutant

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:** The 2C4-gamma2A cell line is a derivative of the 2C4 cell line which is a clonal

derivative of the human fibrosarcoma cell line HT 1080. The 2C4 cell line clone expresses the simple cell-surface marker CD2 (normally expressed only on T cells) under the control of the 9-27 gene promoter. The 9-27 gene promoter is inducible by interferon gamma; fluorescence-activated cell sorter (FACS) analysis was used to screen cells for loss or gain of interferon gamma inducibility of CD2 expression. Cell li...

**Formulation:**

**Recommended controls:** 2C4 parental line

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Interferon gamma; JAK2

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:** Frozen

**Concentration:**

**Passage number:**

**Growth medium:** DMEM + 10% heat-inactivated FBS + 400ug G418 per ml

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** Liquid Nitrogen

**Shipping conditions:** Dry ice

## Related tools

**Related tools:** Gamma2A Jak2 Cell Line ; 2C4 cell line

## References

**References:** 23049902 ; 25248123 ; 27932697

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