



KG-1 NFκB-Luc2

CCL-246-NFκB-LUC2™

Description

KG-1 NFκB-LUC2 is a luciferase reporter-labeled cell line that endogenously expresses a high level of SIGLEC10. This reporter cell line can be used in cell-based assays for monitoring the activity of NFκB signal transduction pathways.

For-profit customers intending to use this product for non-commercial screening must include the one-time "ATCC Screening Fee" (ATCC® ACS-2103F) with their first purchase of this product.

Organism: *Homo sapiens*, human

Tissue: Bone; Marrow

Age: 59 years

Gender: Male

Morphology: myeloblast

Growth properties: Suspension

Disease: Acute myelogenous leukemia

Cells per vial: Approximately 5.0 to 7.0 x 10⁶

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

KG-1 NFkB-Luc2

CCL-246-NFkB-LUC2

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Handling Procedures

KG-1 NFkB-Luc2

CCL-246-NFkB-LUC2

Complete medium: The base medium for this cell line is ATCC-formulated Iscove's Modified Dulbecco's Medium (IMDM; ATCC 30-2005). To make the complete growth medium, add the following components to the base medium: fetal bovine serum (FBS; ATCC 30-2020) to a final concentration of 20% and puromycin to a final concentration of 1 µg/mL.

Handling Procedure:

To ensure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
It is recommended that the cryoprotective agent be removed immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 150 to 400 x g for 8 to 12 minutes.
3. Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio) and dispense into a 25 cm² or a 75 cm² culture flask. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the complete growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6)
4. Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

Subculturing procedure:

Cultures can be maintained by addition or replacement of fresh medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 2-3 X 10⁵ viable cells/mL. Maintain the cell density from 1 X 10⁵ to 2 X 10⁶ cells/mL. Corning® T-75 flasks (catalog #431464) are recommended for

KG-1 NFkB-Luc2

CCL-246-NFkB-LUC2

subculturing this product.

Medium Renewal: Add fresh medium every 2 to 3 days (depending on cell density).

Reagents for cryopreservation: Complete growth medium supplemented with 5% (v/v) DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: KG-1 NFkB-Luc2 (ATCC CCL-246-NFkB-LUC2)

References

References and other information relating to this material are available at www.atcc.org.

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

KG-1 NFkB-Luc2

CCL-246-NFkB-LUC2

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KG-1 NFkB-Luc2

CCL-246-NFkB-LUC2

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
