

FOXP3 Looporter Luciferase Reporter Cell Line | FOXP3 cell line

FOXP3 Looporter Luciferase Reporter-Jurkat Cell Line

CATALOG #
AAA78447

APPLICATIONS
Functional Assay

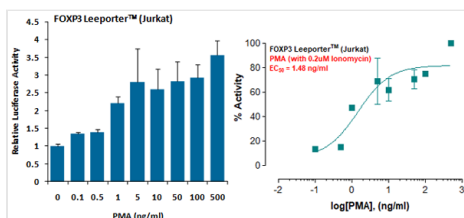
PRODUCT SYNONYMS

FOXP3 Looporter Luciferase Reporter; FOXP3 Looporter Luciferase Reporter-Jurkat Cell Line; Foxp3; Foxp3 reporter; Foxp3 luciferase reporter; Foxp3 cell line; Foxp3 reporter cell line; cell line; stable cell line; reporter cell line; luciferase; luciferase reporter cell line; looporter; looporter(TM); luciferase reporter; luciferase cell line; jurkat cell line; luciferase assay; FOXP3 cell line

PRODUCT SPECIFICATIONS

Form/Format	Each vial contains 2 ~ 3 x 10 ⁶ cells in 1 ml of 90% FBS + 10% DMSO.
Applicable Applications for FOXP3 cell line	FA (Functional Assay)
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Immediately upon receipt, store in liquid nitrogen. Dry Ice Shipment: Extra charge fee may add to your shipping cost as dry ice is required to ship this product. Shipping Note: Product is available for shipment in the United States, Canada and European countries. Please inquire for shipment to other countries.

IMAGES



Application Data

Fig-1: Induction of NF-kB activity by PMA in FOXP3 Looporter Jurkat T cells.

ADDITIONAL INFORMATION

Related Product Information for FOXP3 cell line	Description: The FOXP3 Looporter™ Luciferase Reporter cell line is a stably transfected Jurkat T cell line which expresses Renilla luciferase reporter gene under the transcriptional control of the Forkhead box P3 (FOXP3) promoter. As a member of the forkhead transcription factor family, FOXP3 is a key transcription factor that functions in the development and function of regulatory Tcells. Functional activity of the cell line has been validated by phorbol 12-myristate 13-acetate (PMA) in the presence of ionomycin Culture Conditions: Cells should be grown at 37°C with 5% CO₂ using RPMI medium supplemented with 10% heat-inactivated FBS, 1 mM sodium pyruvate, 10 mM HEPES and 1% Pen/Strep plus 3 ug/ml of Puromycin (Note: Puromycin can be omitted during the reporter cell assays). It is recommended to quickly thaw the frozen cells upon receipt or from liquid nitrogen in a 37°C water-bath, transfer to a tube containing 10 ml of growth medium without Puromycin, spin down cells, resuspend cells in pre-warmed growth medium without Puromycin, transfer resuspended cells to T25 flask and culture in 37°C-CO₂ incubator. Monitor the cell viability by counting cells daily for 1~3 days until cells completely recover viability as cells are doubling daily. Once cells are over 90% confluent, harvest cells by centrifugation and passage cells. At first passage, switch to growth medium containing Puromycin. Cells should be split before they reach complete confluence. To passage the cells, transfer cells to a tube, spin down cells, resuspend cells and seed appropriate aliquots of cell suspension into new culture vessels. Subcultivation ration = 1:10 to 1:20 weekly. To achieve satisfactory results, cells should not be passaged over 16 times Functional validation: A Response of FOXP3 Looporter™ – Jurkat T cells to phorbol 12-myristate 13-acetate (PMA)/ Ionomycin 1. Harvest FOXP3 Looporter™ – Jurkat T cells and seed cells into a white solid-bottom 96-well microplate in 100 ul of growth medium at 2.5 x 10⁵ cells/well. 2. Right after plating cells, stimulate cells with various concentrations of PMA in the presence of 0.2 uM ionomycin and incubate cells at 37°C in a CO₂ incubator for up to 24 hours. 3. Equilibrate the plate to room temperature for 10 minutes. 4. Add 50 ul of luciferase assay reagent (Cat # MBS668917 ; Refer to the reagent datasheet for the detailed luciferase assay protocol) per well 5. Read the plate in 1-5 minutes to measure luminescence using a microplate luminometer.
Product Categories/Family for FOXP3 cell line	Cell Lines

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cell-line/foxp3-leepor-ter-luciferase-reporter/78447>