

NBP2-26272**Human TLR9 Stable Cell Line****Unit Size**

1 Vial

Storage

Store in gas phase of liquid nitrogen.

Target Species

Human

Growth Properties

Adherent Morphology: Epithelial

Applications

FLOW

Host

HEK293

Reconstitution Instructions

Complete Growth Medium: DMEM with 4.5 g/L glucose + 10% FBS + 4 mM L-glutamine + 1 mM sodium pyruvate + 100 units/ml penicillin + 100 ug/ml streptomycin + 10 ug/ml blasticidin.

Selection Agent

Blasticidin

Specificity/Sensitivity

TLR9

Immunogen

The TLR9 stable cell line is a stably transfected HEK 293 line which expresses full-length human Toll-like receptor 9 (TLR9) with no epitope tag.

Recommended Dilutions

Flow Cytometry

Buffer

Contents: 3-4 x 10⁶ cells
 Biosafety Level: 2

Application Notes

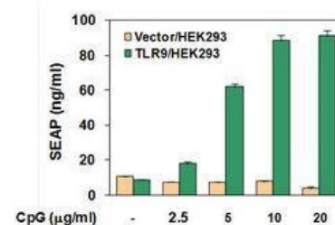
The TLR9 stable cell line can be used for TLR9 flow cytometric calibration and detection control as well as TLR9-dependent functional assays. TLR9 expression in this cell line has been validated by flow cytometry (fig. 1). Functional activity of this cell line has been validated using the NF-κB/SEAPorter™ Assay Kit (NBP2-25286, fig. 2).

References

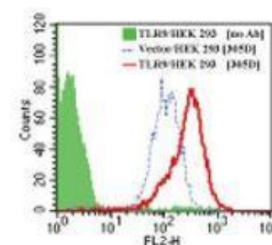
Feng D, Sangster-Guity N, Stone R et al. Differential requirement of histone acetylase and deacetylase activities for IRF5-mediated proinflammatory cytokine expression. J Immunol. 2010 Nov 15 [PMID: 20935208]

Images

Flow Cytometry: Human TLR9 Stable Cell Line [NBP2-26272] - analysis of the TLR9 stable cell line. The assay was performed using the NF-κB SEAPorter™ Assay Kit. The Vector control stable cell line and TLR9 stable cell line were transfected with NF-κB/SEAP reporter plasmid for 16 h. Cells were stimulated with various amounts of CpG for 24 h followed by SEAP assay.



Flow Cytometry: Human TLR9 Stable Cell Line [NBP2-26272] - analysis of TLR9 expression in the TLR9 stable cell line. Intracellular expression of TLR9 in the TLR9 stable cell line was analyzed by flow cytometry using a PE-conjugated TLR9 antibody and compared with the Vector control stable cell line. Intracellular TLR Staining Flow Kit was used for this test.

**Notes**

Assume all cultures are hazardous since they may harbor latent viruses or other organisms that are uncharacterized. The following safety precautions should be observed.

- Use pipette aids to prevent ingestion and keep aerosols down to a minimum.
- No eating, drinking or smoking while handling the stable line.
- Wash hands after handling the stable line and before leaving the lab.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Reporter Cell Lines are guaranteed for 1 year from date of receipt.

Novus USA

p) 888-506-6887
 p) 303-730-1950
 f) 303-730-1966
novus@novusbio.com

Novus Canada

p) 855-668-8722
 p) 905-827-6400
 f) 905-827-6402
canada@novusbio.com

Novus Europe

UK: p) +44 (0)1223 426 001 f) +44 (0)871 971 1635
 DE: p) +49 (0)800 723 5208 f) +49 (0)800 589 2679
 IT: p) +39 02 4032 6786 f) +39 02 4032 6340
 FR: p) +33 (0)1 76 77 45 30 f) +33 (0)1 76 77 45 31
europe@novusbio.com

