

NBP2-26268**Human TLR4 Stable Cell Line****Unit Size**

1 Vial

Storage

Store in gas phase of liquid nitrogen.

Target Species

Human

Growth Properties

Adherent

Morphology: Epithelial

Applications

WB, 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

TLR4

Immunogen

The TLR4 stable cell line is a stably transfected cell line which expresses full-length human Toll-like receptor 4 (TLR4) with an N-terminal HA tag.

Recommended Dilutions

Flow Cytometry, Western Blot

BufferContents: 3-4 x 10⁶ cells

Biosafety Level: 2

Application Notes

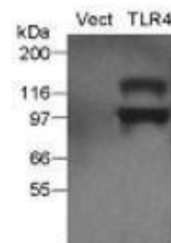
The TLR4 stable cell line can be used for TLR4 flow cytometric calibration and detection control as well as TLR4-dependent functional assays. TLR4 expression in this stable cell line has been validated by Western blotting (Fig. 1) and flow cytometry (Fig. 2). Functional activity of this stable cell line has been validated by the NF-κB/SEAPorte™ Assay Kit (NBP2-25286, Fig. 3).

References

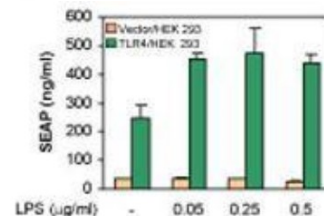
Mukherjee S, Biswas R, Biswas T. Alternative TLRs are stimulated by bacterial ligand to induce TLR2-unresponsive colon cell response. Cell Signal. 2013 Aug [PMID: 23665374]

Images (more available at www.novusbio.com/NBP2-26268)

Western Blot: Human TLR4 Stable Cell Line [NBP2-26268] - Analysis of TLR4 expression in the TLR4 stable cell line using an HA antibody (20 ug total protein/lane). Legend. Vect: Vector control stable cell line; TLR4: TLR4 stable cell line.



Flow Cytometry: Human TLR4 Stable Cell Line [NBP2-26268] - Analysis of the TLR4 stable cell line. The assay was performed using the NF-κB SEAPorte™ Assay Kit. The Vector control stable cell line and TLR4 stable cell line were co-transfected with NF-κB/SEAP reporter plasmid and MD-2/CD14 expression plasmid for 16 h. Cells were stimulated with LPS for 24 h followed by SEAP assay.

**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.

Updated 12/27/2013 3.0

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.

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