

NBP2-26274**Human TLR2 NF-kB/SEAP - (SEAPorter™) Stable Reporter Cell Line****Unit Size**

1 Vial

Storage

Store in gas phase of liquid nitrogen.

Target Species

Human

Reporter Gene

Secreted alkaline phosphatase (SEAP)

Growth Properties

Adherent Morphology: Epithelial

Applications

FLOW, LA

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 + 500 ug/ml G418 (Geneticin).

Selection Agent

Blasticidin and G418.

Specificity/Sensitivity

TLR2/NF-kB/SEAP

Immunogen

The TLR2 reporter cell line is a stably co-transfected cell line which expresses full-length human Toll-like receptor 2 (TLR2) and the secreted alkaline phosphatase (SEAP) reporter gene under the transcriptional control of an NF-kB response element.

Recommended Dilutions

Flow Cytometry, Ligand Activation

BufferContents: 3–4 x 10⁶ cells

Biosafety Level: 2

Application Notes

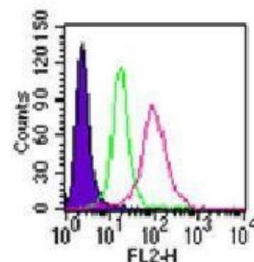
The TLR2 reporter line can be used for TLR2-dependent functional assays as well as screening of TLR2 agonists or antagonists. The TLR2 reporter cell line has been validated by flow cytometry (fig. 3) and ligand dose response assay (Fig. 2 and Fig. 3).

References

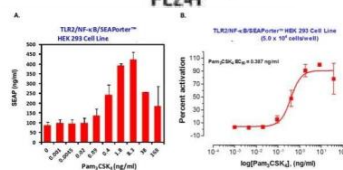
Chan M, Hayashi T, Mathewson RD et al. Identification of substituted pyrimido[5,4-b]indoles as selective Toll-like receptor 4 ligands. J Med Chem. 2013 Jun 13 [PMID: 23656327]

Images (more available at www.novusbio.com/NBP2-26274)

Flow Cytometry: Human TLR2 NF-kB/SEAP - (SEAPorter™) Stable Reporter Cell Line [NBP2-26274] - Cell surface expression of TLR2 on the TLR2 reporter line was analyzed by flow cytometry using a PE-conjugated TLR2 antibody. Flow samples were prepared using the Cell Surface TLR Staining Flow Kit. Purple: Cells alone; Green: NF-kB/ SEAPorter™ HEK 293 cell line stained with anti-TLR2-PE; Red: TLR2 repor... See more at www.novusbio.com/NBP2-26274



Ligand Activation: Human TLR2 NF-kB/SEAP - (SEAPorter™) Stable Reporter Cell Line [NBP2-26274] - Evaluation of the functional activity of the TLR2/NF-kB SEAPorter™ HEK 293 cell line by ligand dose response assay. TLR2/NF-kB SEAPorter™ HEK 293 cells were plated in 96-well plates at 5 x 10⁴ cells/well. After 16 h, cells were stimulated with various amount of Pam3CSK4 for 24 h. SEAP was analyzed ... See more at www.novusbio.com/NBP2-26274

**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 reporter cell line.
- Wash hands after handling the reporter cell line and before leavi... See more at www.novusbio.com/NBP2-26274

Updated 1/6/2014 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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