### 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 µg/ml streptomycin + 10 µg/ml blasticidin + 500 µg/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

### Buffer
Contents: 3~4 x 10^6 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

### 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: TLR2 reporter line stained with anti-TLR2-PE; Red: TLR2 reporter line stained with anti-TLR2-PE. 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 SEAPorterTM HEK 293 cell line by ligand dose response assay. TLR2/NF-kB SEAPorterTM HEK 293 cells were plated in 96-well plates at 5 x 10^4 cells/well. After 16 h, cells were stimulated with various amounts 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 leaving the laboratory.

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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