

**NBP2-26261****Mouse NFκB Secreted Alkaline Phosphatase SEAP - (SEAPorter™) Stable Reporter Cell Line****Unit Size**

1 Vial

**Storage**

Store in gas phase of liquid nitrogen.

**Target Species**

Mouse

**Reporter Gene**

Secreted alkaline phosphatase (SEAP)

**Growth Properties**

Adherent

Morphology: Macrophage

**Applications**

In vitro, LA

**Host**

RAW264.7

**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 + 500 ug/ml G418 (Geneticin).

**Selection Agent**

RAW cell line.

**Specificity/Sensitivity**

RAW NF-κB/SEAP Reporter Cell Line

**Immunogen**

The RAW reporter stable cell line is a stably transfected RAW 264.7 cell line which expresses the secreted alkaline phosphatase (SEAP) reporter gene under the transcriptional control of an NF-κB response element.

**Recommended Dilutions**

In vitro assay, Ligand Activation

**Buffer**Contents: 3–4 x 10<sup>6</sup> cells

Biosafety Level: 2

**Application Notes**

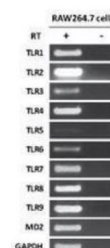
The RAW reporter cell line can be used for screening of TLR agonists or antagonists as well as inhibitory TLR antibody assay. RAW 264.7 cells are known to respond to most Toll-like receptor (TLR) ligands, which trigger the NF-κB induction and lead to inflammatory cytokine production. RT-PCR tests also shows that RAW 264.7 cells produce all of the TLR mRNAs except for TLR5 (Figure 1). Using a 96-well... See more at [www.novusbio.com/NBP2-26261](http://www.novusbio.com/NBP2-26261)

**References (more available at [www.novusbio.com/NBP2-26261](http://www.novusbio.com/NBP2-26261))**

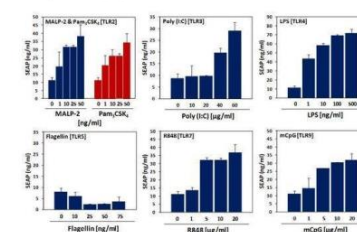
Feng D, Sangster-Guity N, Stone R et al. Differential requirement of histone acetylase and deacetylase activities for IRF5-mediated proinflammatory cytokine expression. J Immunol. 2010 Nov 15 [PMID: 20935208]

**Images**

In vitro assay: Mouse NFκB Secreted Alkaline Phosphatase SEAP - (SEAPorter™) Stable Reporter Cell Line [NBP2-26261] - mRNA expression patterns of Toll-like receptors in RAW264.7 cells. Total RNAs were prepared and reverse transcription (RT) was performed to produce cDNAs. PCR was done using the gene-specific primers for mouse TLR1 to TLR9, MD2 as well as glyceraldehyde-3-phosphate dehydrogenase (G... See more at [www.novusbio.com/NBP2-26261](http://www.novusbio.com/NBP2-26261)



Ligand Activation: Mouse NFκB Secreted Alkaline Phosphatase SEAP - (SEAPorter™) Stable Reporter Cell Line [NBP2-26261] - TLR ligand stimulation assay. The RAW cell line was plated in 96-well plates at 5 x 10<sup>4</sup> cells/well. After 16 h, cells were stimulated with MALP-2, Pam3CSK4, Poly(I:C), LPS, Flagellin, R848 or mCpG as noted in each graph for 24 h. SEAP was analyzed using SEAPorter™ Assay Kit.

**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 RAW line.
- Wash hands after handling the RAW line and before leaving the lab.
- D... See more at [www.novusbio.com/NBP2-26261](http://www.novusbio.com/NBP2-26261)

### **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



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