

SEAP Reporter Gene Assay Kit (Luminescence)

Cat. No. Kit-0780 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SEAP Reporter Gene Assay Kit (Luminescence) provides a simple chemiluminescence method for the sensitive quantitation of SEAP (secreted alkaline phosphatase) in conditioned cell culture medium from transfected cells. The assay can detect SEAP activity in the microunits/well (mU/ml) range. The kit includes enough reagents to run three 96-well plates. The assay is easy to perform and can be completed within one hour.
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Size	300 tests
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Description	Secreted alkaline phosphatase (SEAP) is commonly used as a reporter of gene expression. Compared to other conventional intracellular reporters such as chloramphenicol acetyltransferase (CAT) and firefly luciferase, SEAP has the advantage of being secreted from transfected cells into the culture medium. SEAP activity in the culture medium is directly proportional to changes in intracellular concentrations of SEAP mRNA and protein. In addition, the kinetics of gene expression can be studied using the same cultures by repeatedly collecting culture medium at different time points. The intact cells can be used for further analysis of RNA or protein expression. SEAP activity was first measured using the chromogenic alkaline phosphatase substrate p-nitrophenyl phosphate (pNPP). Today, the most sensitive SEAP assays employ chemiluminescent alkaline phosphatase substrates such as the 1,2-dioxetane CSPD. Chemiluminescent detection of SEAP is fast, easy to perform, and sensitive.
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Applications	Functional Studies more details
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Target Species	Reacts with: Human; Predicted to work with: all Mammals
Kit Components	Components: 300 tests; 96-Well Solid Plate (white) with lid: 3 units; Cell-Based Alkaline Phosphatase Standard: 1 x 50µl SEAP Substrate (Luminescence): 1 x 15ml
Compatible Sample Types	Cell culture media
Assay time	1h 00m

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