

## GeNei™ Detection of $\beta$ -gal in Transfected cells - Teaching Kit

### Description:

The kit demonstrates the detection of lac Z reporter gene by staining for its product- $\beta$ -Galactosidase in transfected mammalian cells.

This kit gives hands on experience on how  $\beta$ -Galactosidase can be detected in cells using two different staining protocols - one using a substrate for  $\beta$ -Galactosidase and the other using an antibody specific for  $\beta$ -Galactosidase. The substrate gives a blue coloured product which is easily visualized. The antibody binds to the antigen in the cells to form an antigen - antibody complex which is detected using an enzyme linked secondary antibody. The substrate for this enzymes forms an insoluble coloured precipitate wherever the antigen is present.

The kit contents are sufficient for 5 experiments.

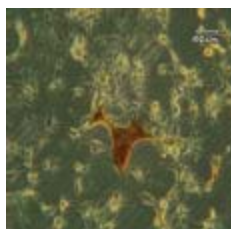
### Ordering Information:

Product	Size	Cat #
GeNei™ Detection of $\beta$ -gal in Transfected cells - Teaching Kit (Consumables for 5 experiments)	1 Pack	107821

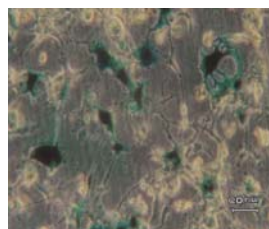
### Materials Provided:

- Blocking serum
- Positive control antibody
- Negative control antibody
- 100X Secondary antibody
- 10X Antibody diluent
- Substrate
- Substrate buffer
- 30% H<sub>2</sub>O<sub>2</sub>
- 10X PBS
- 10X PBST
- Rinse Buffer
- Staining solution
- Wash buffer
- DPX mountant
- Slides with fixed cells  
(transfected and untransfected (3-well:5 nos & 2-well: 5 nos))
- Instruction Manual

**Note:** The fixed slides have to be stored at -20°C



**A.  $\beta$ -Galactosidase staining using antibody**



**B.  $\beta$ -Galactosidase staining using staining solution**