Senescence Detection Kit ab65351

Overview

Product name: Senescence Detection Kit
Detection method: Colorimetric
Sample type: Tissue, Adherent cells
Assay type: Enzyme activity
Assay time: 1h 10m

Product overview

Senescence Detection Kit (ab65351) is designed to histochemically detect SA-beta-Gal activity in cultured cells and tissue sections, a known characteristic of senescent cells. The SA-beta-Gal is present only in senescent cells and is not found in presenescent, quiescent or immortal cells.

Senescence assay protocol summary:
- wash cells / sections with PBS
- fix with fixative solution for 10 min
- wash with PBS
- incubate in staining solution mix for 1 hr
- analyze staining with a microscope

Notes

Senescence is thought to be a tumor suppressive mechanism and an underlying cause of aging. Senescent cells display increase of cell size, senescence-associated expression of beta-galactosidase (SA-beta-Gal) activity, and altered patterns of gene expression.

Properties

Storage instructions
Store at -20°C. Please refer to protocols.

Storage buffer
Preservative: None

Components

<table>
<thead>
<tr>
<th>Identifier</th>
<th>250 tests</th>
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<tbody>
<tr>
<td>100X Staining Supplement</td>
<td>Red</td>
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Relevance

Cellular senescence is a growth-arrest program by which normal diploid cells lose the ability to divide, and it plays a critical role in regulating lifespan both in vivo and in vitro. Cellular senescence occurs as a reflection of organism aging and in response to internal and external stress signals.

Images

Senescence-associated beta-galactosidase staining at the 2nd(A), 4th(B), 8th(C), 12th passage in vitro expansion. Cells were plated at a density of 10,000 cells/cm² for 24h before staining. Five representative images (100x) were taken from diverse areas of cell culture, using phase-contrast microscopy to assess the number of positive cells.

Image obtained from Angelucci S et al; Proteome Sci, 2010 Mar 26;8:18

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