# abcam

## Product datasheet

## Glycolysis Assay [Extracellular acidification] ab197244

26 References 3 图像

概述

产品名称 Glycolysis Assay [Extracellular acidification]

检**测方法** Fluorescent

样品类型 Adherent cells, Suspension cells

检测类型 Cell-based (quantitative)

**检测时间** 1h 30m

产品概述 Glycolysis Assay [Extracellular Acidification] (ab197244) is an easy mix-and-measure, 96 well

fluorescence plate reader-based approach for the analysis of extracellular acidification (ECA/ECAR). As lactate production is the main contributor to this acidification, ab197244 is a convenient and informative measure of cellular glycolytic flux. Such measurements offer an important insight into the central role played by altered glycolytic activity in a wide array of physiological and pathophysiological processes, including cellular adaptation to hypoxia and

ischemia, and the development and progression of tumorigenesis.

The performance of Glycolysis Assay facilitates sensitive robust microtiter-plate based measurements, thereby overcoming many of the problems associated with the more cumbersome potentiometric pH approach. Rates of extracellular acidification are calculated from changes in fluorescence signal over time and, as the measurement is non-destructive and fully reversible (pH-sensitive reagent is not consumed), measurement of time-courses and multiple drug treatments

are possible.

说明 Learn more about the full range of <u>assays to measure glycolysis</u>, <u>oxygen consumption</u>, <u>fatty</u>

acid oxidation and metabolic flux in live cells.

Or review the full metabolism assay guide for other assays for metabolites, metabolic enzymes,

mitochondrial function, and oxidative stress.

**平台** Microplate reader

性能

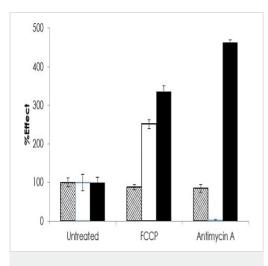
**存放**说明 Store at +4°C. Please refer to protocols.

组 <b>件</b>	96 tests	4 x 96 tests
Glycolysis Assay Reagent (lyophilized)	1 vial	4 vials

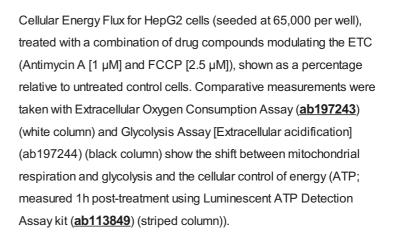
1

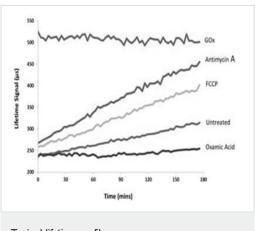
组 <b>件</b>	96 tests	4 x 96 tests
Respiration Buffer	1 tablet	4 tablets

#### 图片

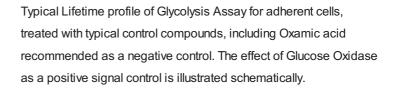


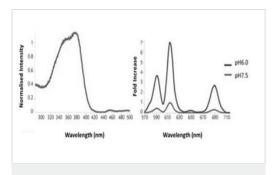
Simultaneous quantification of mitochondrial respiration and glycolytic flux





Typical lifetime profile





Excitation and emission spectra

Excitation and Emission spectra of Glycolysis Assay. Left panel shows normalized excitation (Ex 340 – 410nm; Peak 360-380nm). Right panel shows emission maxima (Em 590, 615 and 690nm) fold increase between pH6.0 and pH7.5.

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