abcam

Product datasheet

Adipogenesis Detection Assay Kit (Colorimetric/Fluorometric) ab102513

15 References 5 Images

Overview

Product name Adipogenesis Detection Assay Kit (Colorimetric/Fluorometric)

Detection methodColorimetric/Fluorometric

Sample type Tissue, Adherent cells, Suspension cells

Assay type Quantitative
Sensitivity > 0.2 nM

Range 0.2 nM - 10 nM

Assay time 0h 40m

Product overview Adipogenesis Detection Assay Kit (Colorimetric/Fluorometric) (ab102513) quantifies triglyceride

accumulation in cells and tissues. In the assay, triglycerides are efficiently solubilized then hydrolyzed to glycerol which is subsequently oxidized to convert the probe to generate color (ODmax = 570 nm) and fluorescence (Ex/Em = 535/587 nm). The kit can detect 0.2 - 10 nmol of triglyceride in <1,000 differentiated 3T3-L1 cells. The high detection sensitivity and the convenient microplate assay format make the kit a convenient tool for studying the effect of adipogenesis

inducers or to screen inhibitor compounds.

Visit our **FAQs page** for tips and troubleshooting.

Notes This product is manufactured by BioVision, an Abcam company and was previously called K610

Adipogenesis Colorimetric/Fluorometric Assay Kit. K610-100 is the same size as the 100 test

size of ab102513.

Adipogenesis is the process of differentiation of different cell types into adipocytes, the primary fat storage cell type. The accumulation of adipocytes is the basis for obesity, a significant risk factor in many diseases, including diabetes, atherosclerosis, cancer and cardiovascular disease,

etc. Adipocytes accumulate triglycerides, in the form of lipid droplets which can be measured.

Platform Microplate reader

Properties

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

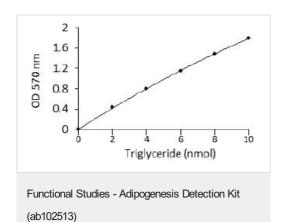
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| Components | 100 tests | 2000 tests |
|--|-----------|------------|
| Adipogenesis Lipid Extraction Solution | 1 x 10ml | 20 x 10ml |
| Assay Buffer V | 1 x 25ml | 20 x 25ml |
| Enzyme Mix VI | 1 vial | 20 vials |
| Lipase I | 1 vial | 20 vials |
| OxiRed Probe | 1 x 200µl | 20 x 200µl |
| Triglyceride Standard | 1 x 0.3ml | 20 x 0.3ml |

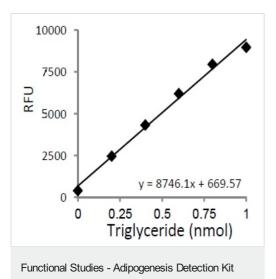
Relevance

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Images

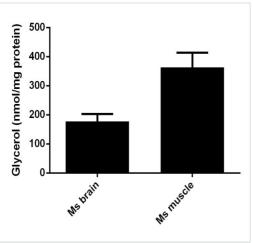


Example of a standard curve obtained with ab102513.

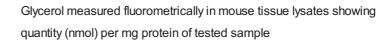


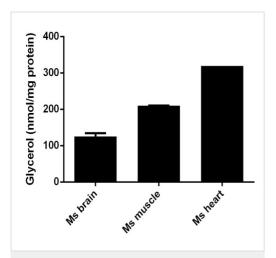
(ab102513)

Example of a standard curve obtained with ab102513.



Functional Studies - Adipogenesis Detection Kit (ab102513) - Fluorometric





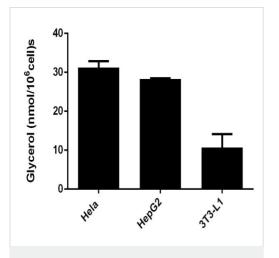
Functional Studies - Adipogenesis Detection Kit (ab102513) - Colourimetric

Glycerol measured colourimetrically in mouse tissue lysates showing quantity (nmol) per mg protein of tested sample.

Ms brain value retrieved from 1:9 dilution of original 12.4mg/mL sample.

Ms muscle value retrieved from 1:9 dilution of original 7.5mg/mL sample.

Ms heart value retrieved from 1:27 dilution of original 16.4mg/mL sample.



Functional Studies - Adipogenesis Detection Kit (ab102513) - Colourimetric

Glycerol measured colourimetrically in cell lysates showing quantity (nmol) per 1 mln of tested cells

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