abcam

Product datasheet

Nuclear Extraction Kit ab113474

★★★★★ 3 Abreviews 206 References 3 Images

Overview

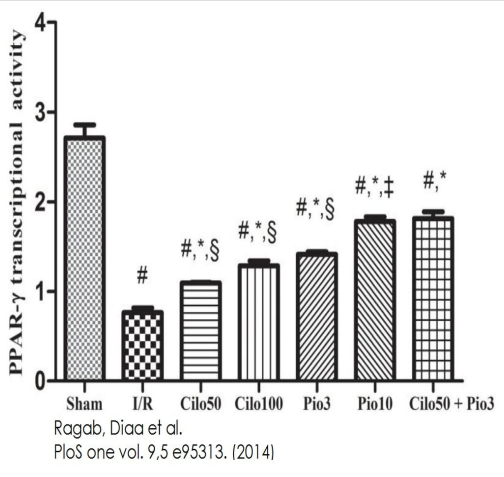
Product name	Nuclear Extraction Kit
Sample type	Tissue, Adherent cells, Suspension cells
Assay time	1h 00m
Product overview	Nuclear Extraction Kit (ab113474) provides a simple and selective method along with all necessary reagents for nuclear protein extraction / nuclear protein fractionation in just 1 hour. The extracts can then be used in western blotting, protein-DNA binding assays, nuclear enzyme assays or any other procedures requiring optimized nuclear proteins. The protocol is fast and easy-to-use, and isolates very abundant yields of nuclear extract from mammalian cells or tissue samples. Not sure if this is the right product for you? Check out our **Methods and tools to study histone modifications** for help. Compared to other kits that use conventional nuclear extraction / nuclear fractionation methods, the buffers included in ab113474 contain much lower amounts of salts (80% less than conventional kits) and no SDS, which allows much better retention of enzyme activity in the nuclear extracts.

Properties

Storage instructions	Store at +4°C. Please refer to protocols.

Components	100 tests
1000X Protease Inhibitor Cocktail	1 x 110µl
10X Pre-Extraction Buffer	1 x 10ml
DTT Solution (1000X)	1 x 110µl
ENE2 (Extraction Buffer)	1 x 10ml

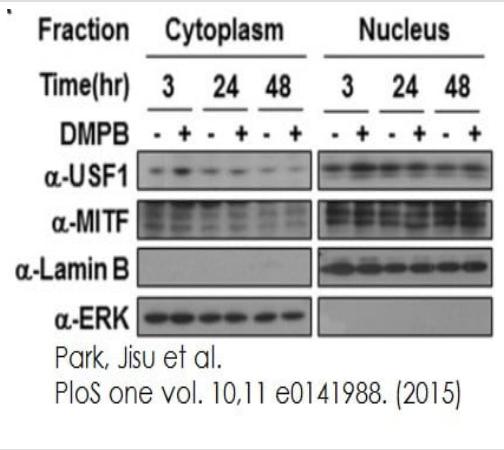
Images



Functional Studies - Nuclear Extraction Kit (ab113474)

Ragab, Diaa et al., PloS one?vol. 9,5 e95313., Fig 6, doi:10.1371/journal.pone.0095313

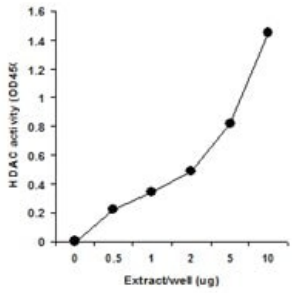
Effect of two drugs refered to as Cilo (50 and 100 mg/kg; Cilo50and Cilo100), and Pio (3 and 10 mg/kg; Pio3 and Pio10), and their combination (Cilo50and Pio3) on the PPAR-γ transcription activity in rats subjected to ischemia (45 min)/reperfusion (24 hrs).
Drugs were administered orally for 14 days then subjected to ischemia/reperfusion. Values are expressed as mean ± S.E.M (n = 6). Data are compared with sham operated control (#), I/R control (□), Cilo50 (), Pio3 (), and combination (§) pretreated groups (one-way ANOVA followed by Tukey Multiple Comparison Test) at $P<0.05$.



Functional Studies - Nuclear Extraction Kit (ab113474)

Park, Jisu et al., PloS one?vol. 10,11 e0141988., Fig 4, doi:10.1371/journal.pone.0141988

B16F10 cells were treated with 30 μM of DMPB for the indicated time periods. Cytoplasmic and nuclear fractions were isolated and analyzed by Western blotting.



Functional Studies - Nuclear Extraction Kit (ab113474)

Nuclear extracts were prepared from MCF-7 cells and the activity of HDACs were measured using different amounts of the extract. The result shown in the figure demonstrates the ab113474's high specificity.

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