abcam

Product datasheet

Hela-DFO treated (0.5mM, 24h) Nuclear Lysate ab180880

1 References 3 Images

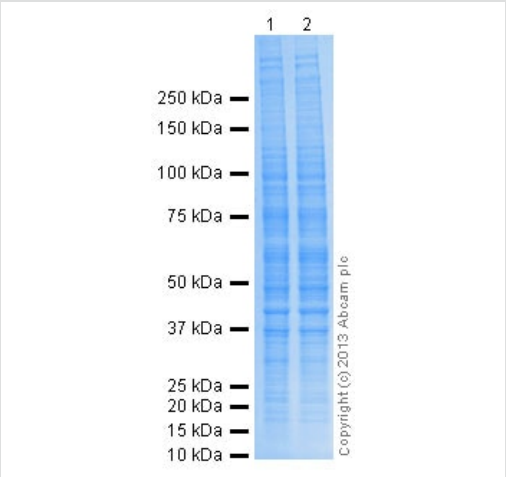
Overview

Product name	Hela-DFO treated (0.5mM, 24h) Nuclear Lysate
General notes	We recommend aliquoting the extracts into single use fractions and then storing them at -80°C. The cells were treated for 24 hours with a 0.5mM solution of Deferoxamine (DFO). DFO is used as a hypoxia-mimetic agent to stabilize Hypoxia Inducible Factor 1 (HIF-1). DFO stabilizes HIF-1 through the inhibition of Prolyl Hydroxylases (PHDs) which target HIF-1 through degradation. The mechanism of DFO inhibition is likely through the chelation of Fe2+ bound to the active site of PHD which is required for enzymatic activity.

Properties

Mycoplasma free	Yes
Form	Liquid
Storage instructions	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituent: 10% (R*,R*)-1,4-Dimercaptobutan-2,3-diol
Lysate notes	The cells were treated for 24 hours with a 0.5mM solution of Deferoxamine (DFO). DFO is used as a hypoxia-mimetic agent to stabilize Hypoxia Inducible Factor 1 (HIF-1). DFO stabilizes HIF-1 through the inhibition of Prolyl Hydroxylases (PHDs) which target HIF-1 through degradation. The mechanism of DFO inhibition is likely through the chelation of Fe2+ bound to the active site of PHD which is required for enzymatic activity.
Background	HeLa cells are human epithelial cells from a fatal cervical carcinoma. The cell line was derived from cervical cancer cells taken from Henrietta Lacks, in 1951. Horizontal gene transfer from human papillomavirus 18 (HPV18) to human cervical cells created the HeLa genome which is different from either parent genome in various ways including its number of chromosomes. HeLa cells have a modal chromosome number of 82, with 4 copies of chromosome 12 and 3 copies of chromosomes 6, 8, and 17. HeLa cells are adherent cells (they stick to surfaces) and maintain contact inhibition in vitro.

Images

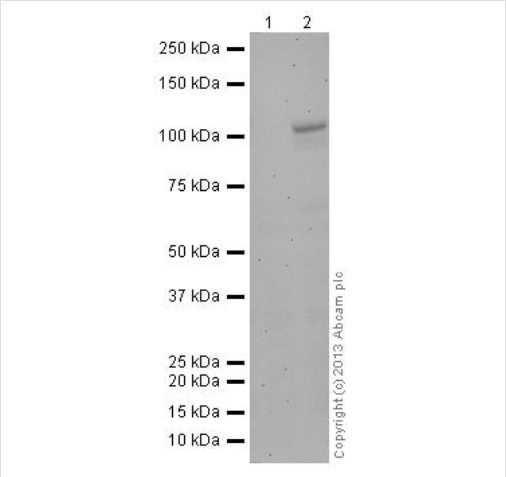


Western blot - Hela-DFO treated (0.5mM, 24h) Nuclear Lysate (ab180880)

All lanes : Simply Blue Coomassie Stain 20ml

Lane 1 : HeLa nuclear extract lysate (**ab150036**)
Lane 2 : Hela-DFO treated (0.5mM, 24h) Nuclear Lysate (ab180880)

Lysates/proteins at 10 µg per lane.



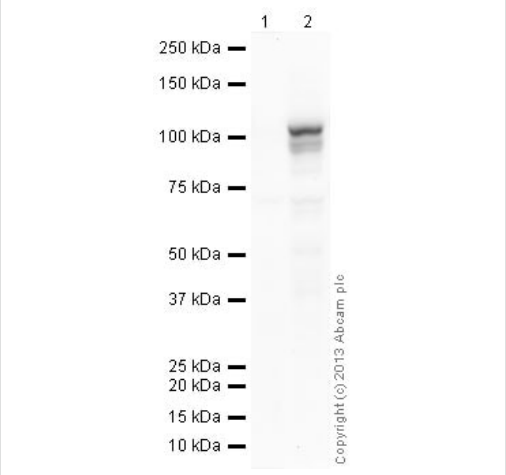
Western blot - Hela-DFO treated (0.5mM, 24h) Nuclear Lysate (ab180880)

All lanes : Anti-HIF-1 alpha antibody [H1alpha67] (**ab1**) at 5 µg/ml

Lane 1 : HeLa whole cell lysate (**ab150035**)
Lane 2 : Hela-DFO treated (0.5mM, 24h) Nuclear Lysate (ab180880)

Lysates/proteins at 40 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/10000 dilution



Western blot - Hela-DFO treated (0.5mM, 24h) Nuclear Lysate (ab180880)

All lanes : Anti-HIF-1 alpha antibody [EP1215Y] (**ab51608**) at 1/2000 dilution

Lane 1 : HeLa nuclear extract lysate (**ab150036**)
Lane 2 : Hela-DFO treated (0.5mM, 24h) Nuclear Lysate (ab180880)

Lysates/proteins at 40 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 8 minutes

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