

Product datasheet

Human TFDP2 (DP2) knockout HEK293T cell lysate
ab263383

1 Image

Overview

Product name	Human TFDP2 (DP2) knockout HEK293T cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 1 bp insertion in exon10.
Passage number	<20
Knockout validation	Sanger Sequencing
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

Notes

Lysate preparation: Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

User storage instructions: After reconstitution, store the lysate at -80°C.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. [See here for more information on knockout cell lysates.](#)

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Properties

Storage instructions Store at -80°C. Please refer to protocols.

Components	1 kit
ab262768 - Human TFDP2 knockout HEK293T cell lysate (Lyophilized)	1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate (Lyophilized)	1 x 100µg

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

Target

Function Can stimulate E2F-dependent transcription. Binds DNA cooperatively with E2F family members through the E2 recognition site, 5'-TTTC[CG]CGC-3', found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DP2/E2F complex functions in the control of cell-cycle progression from G1 to S phase. The E2F-1/DP complex appears to mediate both cell proliferation and apoptosis.

Tissue specificity High levels in heart and skeletal muscle. Also found in placenta, kidney, brain, lung and liver. The presence as well as the abundance of the different transcripts appear to vary significantly in different tissues and cell lines.

Sequence similarities Belongs to the E2F/DP family.

Post-translational modifications Ser-24 is probably phosphorylated by CDK2.

Cellular localization Nucleus.

Images

Mut	ACAGAGAAATCGACAAAATGAGCAGCAAAAACCAAGGGCCCGCCGGCTCTGAACTCTACCA
WT	ACAGAGAAATCGACAAAATGAGCAGCAAAAACCAAGGGCCCGCCGGCTCTGAACTCTACCA

Sanger Sequencing - Human TFDP2 knockout
HEK293T cell lysate (ab263383)

Homozygous: 1 bp insertion in exon10

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