abcam

Product datasheet

Human HNRNPA2B1 knockout HEK-293T cell pellet ab278869

2 Images

Overview

Product name	Human HNRNPA2B1 knockout HEK-293T cell pellet
Product overview	Abcam's knockout cell pellets give you access to native proteins, without the need to culture cells. Our knockout cell pellets are prepared from our single-gene knockout cell lines and provide an additional offering to our cell lysates. Cells are snap-frozen to provide high quality pellets that are suitable for extraction with alternative lysis buffers or for preparation of lysates from subcellular fractions. Our knockout cell pellets are suitable for a variety of applications, including PCR, gene expression profiling and DNA library preparation.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 2 bp deletion in exon 3.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Notes	**Pellet size:** 5 million cells/vial. This product is subject to limited use licenses from The Broad Institute and ERS Genomics Limited, and is developed with patented technology. For full details of the limited use licenses and relevant patents please refer to our **limited use license** and **patent pages**.
Tested applications	**Suitable for:** WB

Properties

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

Components	
Human wild-type HEK293T cell pellet	1 x 1vial
Human HNRNPA2B1 knockout HEK293T cell pellet	1 x 1vial

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	Involved with pre-mRNA processing. Forms complexes (ribonucleosomes) with at least 20 other different hnRNP and heterogeneous nuclear RNA in the nucleous.
Sequence similarities	Contains 2 RRM (RNA recognition motif) domains.
Cellular localization	Nucleus > nucleoplasm. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes. Predominantly nucleoplasmic, however isoform A2 is also found in the cytoplasm of cells in some tissues. Not found in the nucleolus.

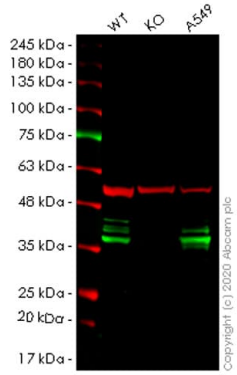
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab278869 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 37 kDa.

Images



Western blot - Human HNRNPA2B1 knockout HEK293T cell pellet (ab278869)

Lane 1: Wild-type HEK293T cell lysate (20 µg)

Lane 2: HNRNPA2B1 knockout HEK293T cell lysate (20 µg)

Lane 3: A549 cell lysate (20 µg)

Lanes 1-3: Merged signal (red and green). Green - **ab31645** observed at 37 kDa. Red - loading control, **ab7291** observed at 50 kDa.

ab31645 Anti-hnRNP A2B1 antibody was shown to specifically react with hnRNP A2B1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266404** (knockout cell lysate **ab257224**) was used. Wild-type and hnRNP A2B1 knockout samples were subjected to SDS-PAGE. **ab31645** and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti- Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.

Sanger Sequencing - Human HNRNPA2B1 knockout HEK293T cell pellet (ab278869)

Homozygous: 2 bp deletion in exon 3

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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