abcam

Product datasheet

Human RANBP1 knockout HEK293T cell lysate ab258168

2 Images

Overview

Product name	Human RANBP1 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, Homozygous: Insertion of the selection cassette in exon 2.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
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. **Usage of SDS sample buffer is not recommended with these lyophilized lysates.*
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. Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses. This product is subject to limited use licenses from The Broad Institute, ERS Genomics Limited and Sigma-Aldrich Co. LLC, and is developed with patented technology. For full details of the licenses and 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	**1 kit**
ab260484 - Human RANBP1 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	Inhibits GTP exchange on Ran. Forms a Ran-GTP-RANBP1 trimeric complex. Increase GTP hydrolysis induced by the Ran GTPase activating protein RANGAP1. May act in an intracellular signaling pathway which may control the progression through the cell cycle by regulating the transport of protein and nucleic acids across the nuclear membrane.
Sequence similarities	Belongs to the RANBP1 family. Contains 1 RanBD1 domain.

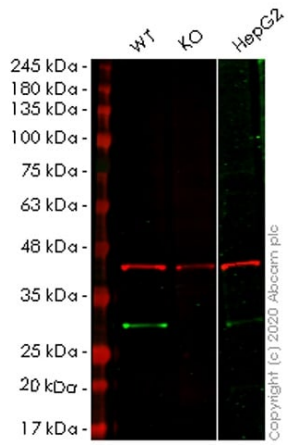
Applications

Our Abpromise guarantee covers the use of **ab258168** 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: 23 kDa.

Images



Western blot - Human RANBP1 knockout HEK293T cell lysate (ab258168)

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

Lane 2: RANBP1 knockout HEK293T cell lysate (20 ug)

Lane 3: HepG2 cell lysate (20 ug)

Lane 4: HeLa cell lysate (20 ug)

ab133550 was shown to specifically react with RanBP1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266202 (knockout cell lysate ab258168) was used. Wild-type and RanBP1 knockout samples were subjected to SDS-PAGE. ab133550 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated at room temperature for 2.5 hours at 1 in 1000 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 20000 dilution for 1 hour at room temperature before imaging.

Sanger Sequencing - Human RANBP1 knockout HEK293T cell lysate (ab258168)

Homozygous: Insertion of the selection cassette in exon 2

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