

Product datasheet

Human PDCD6 (ALG-2) knockout HEK-293T cell lysate ab258570

[2 Images](#)

Overview

Product name	Human PDCD6 (ALG-2) knockout HEK-293T 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: 10 bp deletion in exon 1.
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. <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: Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

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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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.

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Tested applications

Suitable for: WB

Properties

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

Components	1 kit
ab260586 - Human PDCD6 knockout HEK293T cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	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 Calcium-binding protein required for T-cell receptor-, Fas-, and glucocorticoid-induced cell death. May mediate Ca(2+)-regulated signals along the death pathway (By similarity). Calcium-dependent adapter necessary for the association between PDCD6IP and TSG101. Interaction with DAPK1 can accelerate apoptotic cell death by increasing caspase-3 activity. May inhibit KDR/VEGFR2-dependent angiogenesis; the function involves inhibition of VEGF-induced phosphoprylation of the Akt signaling pathway. Seems to play a role in the regulation of the distribution and function of MCOLN1 in the endosomal pathway. Isoform 2 has a lower Ca(2+) affinity than isoform 1. Isoform 1 and, to a lesser extend, isoform 2, can stabilize SHISA5.

Sequence similarities Contains 5 EF-hand domains.

Cellular localization Nucleus membrane. Endoplasmic reticulum membrane. Nucleus. Endosome. Interaction with RBM22 induces relocalization from the cytoplasm to the nucleus. Translocated from the cytoplasm to the nucleus after heat shock cell treatment. Accumulates in cytoplasmic vesicle-like organelles after heat shock treatment, which may represent stress granules.

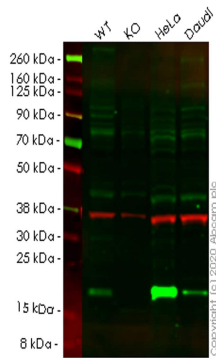
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab258570 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: 21 kDa.

Images



Western blot - Human PDCD6 (ALG-2) knockout
HEK293T cell lysate (ab258570)

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

Lane 2: PDCD6 knockout HEK293T cell lysate (20 ug)

Lane 3: HeLa cell lysate (20 ug)

Lane 4: Daudi cell lysate (20 ug)

ab109181 was shown to specifically react with PDCD6/ALG-2 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266323** (knockout cell lysate ab258570) was used. Wild-type and PDCD6/ALG-2 knockout samples were subjected to SDS-PAGE. **ab109181** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C 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 PDCD6 knockout
HEK293T cell lysate (ab258570)

Homozygous: 10 bp deletion in exon 1

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