

Product datasheet

Human RIPK2 (RIP2) knockout HeLa cell lysate ab258636

3 Images

Overview

| | |
|-----------------------------|--|
| Product name | Human RIPK2 (RIP2) knockout HeLa cell lysate |
| Product overview | Knockout cell lysate achieved by CRISPR/Cas9. |
| Parental Cell Line | HeLa |
| Organism | Human |
| Mutation description | Knockout achieved by using CRISPR/Cas9, 1 bp insertion in exon 1 and 2 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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Tested applications

Suitable for: WB

Properties

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

| Components | 1 kit |
|--|-----------|
| ab260606 - Human RIPK2 knockout HeLa cell lysate | 1 x 100µg |
| ab255929 - Human wild-type HeLa cell lysate | 1 x 100µg |

Cell type epithelial
Disease Adenocarcinoma
Gender Female
STR Analysis Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 WWA: 16, 18 TH01: 7 TPOX: 8, 12 CSF1PO: 9, 10

Target

Function Activates pro-caspase-1 and pro-caspase-8. Potentiates CASP8-mediated apoptosis. Activates NF-kappa-B.

Tissue specificity Detected in heart, brain, placenta, lung, peripheral blood leukocytes, spleen, kidney, testis, prostate, pancreas and lymph node.

Sequence similarities Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 1 CARD domain. Contains 1 protein kinase domain.

Post-translational modifications Autophosphorylated. Phosphorylated upon DNA damage, probably by ATM or ATR. Ubiquitinated; undergoes 'Lys-63'-linked polyubiquitination catalyzed by ITCH.

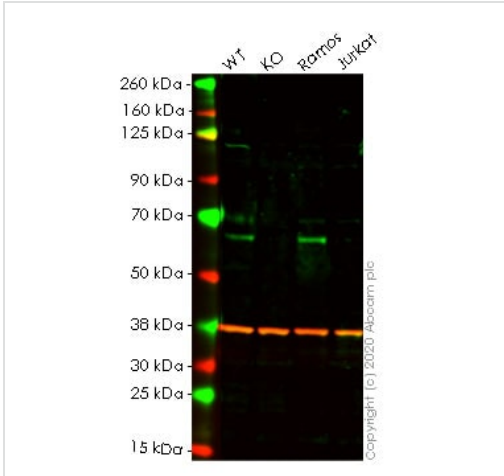
Cellular localization Cytoplasm.

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab258636 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: 61 kDa. |

Images



Western blot - Human RIPK2 knockout HeLa cell lysate (ab258636)

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

Lane 2: RIPK2 knockout HeLa cell lysate (20 µg)

Lane 3: Ramos cell lysate (20 µg)

Lane 4: Jurkat cell lysate (20 µg)

Lanes 1-4: Merged signal (red and green). Green - **ab75257** observed at 65 kDa. Red - loading control **ab181602** observed at 37 kDa.

ab75257 Anti-RIP2 antibody [AF28D3] was shown to specifically react with RIP2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264688** (knockout cell lysate ab258636) was used. Wild-type and RIP2 knockout samples were subjected to SDS-PAGE. **ab75257** and Anti-GAPDH antibody[EPR16891] - Loading Control (**ab181602**) were incubated overnight at 4°C at 1 in 2000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

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Mut  CCGACGACACAGTGCCAGAGGC GCCCGCGGC - AGGTAGCGCAGGT CCGCGAGTTTGTGGT
      |||
WT   CCGACGACACAGTGCCAGAGGC GCCCGCGGCTCAGGTAGCGCAGGT CCGCGAGTTTGTGGT
  
```

Sanger Sequencing - Human RIPK2 knockout HeLa cell lysate (ab258636)

Allele-1: 2 bp deletion in exon 1

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Mut  CCGACGACACAGTGCCAGAGGC GCCCGCGGCCTCAGGTAGCGCAGGT CCGCGAGTTTGTGG
      |||
WT   CCGACGACACAGTGCCAGAGGC GCCCGCGGC TCAGGTAGCGCAGGT CCGCGAGTTTGTGG
  
```

Sanger Sequencing - Human RIPK2 knockout HeLa cell lysate (ab258636)

Allele-2: 1 bp insertion in exon 1

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