

Product datasheet

Human CAMK2G (CamKII gamma) knockout HeLa cell lysate ab258340

4 Images

Overview

Product name	Human CAMK2G (CamKII gamma) 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 deletion in exon4 and 1 bp insertion in exon4 and 2 bp deletion in exon4.
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
ab261215 - Human CAMK2G 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 vWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

Target

Cellular localization Cell Membrane

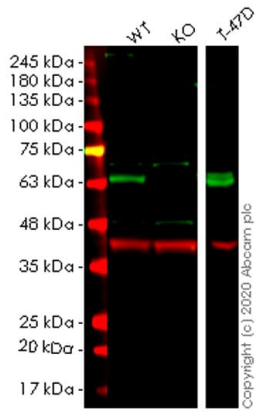
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab258340 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: 63 kDa.

Images



Western blot - Human CAMK2G knockout HeLa cell lysate (ab258340)

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

Lane 2: CAMK2G knockout HeLa cell lysate (20 µg)

Lane 3: T-47D cell lysate (20 µg)

Lanes 1-3: Merged signal (red and green). Green - **ab201966** observed at 63 kDa. Red - loading control, **ab181602** observed at 37 kDa.

ab201966 Anti-CamKII gamma antibody [8G10C1] was shown to specifically react with CamKII gamma in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264712** (knockout cell lysate ab258340) was used. Wild-type and CamKII gamma knockout samples were subjected to SDS-PAGE.

ab201966 and Anti-GAPDH antibody [EPR16891] - Loading Control (**ab181602**) were incubated overnight at 4°C at 1 in 500 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 10000 dilution for 1 hour at room temperature before imaging.

```
Mut  CCCTCAGAAAGTGGCACTTACAGGTCAAAC - GAGGTAGTAAAACCCCTTCTTCAGAAATA
      |||
WT   CCCTCAGAAAGTGGCACTTACAGGTCAAACACGAGGTAGTAAAACCCCTTCTTCAGAAATA
```

Sanger Sequencing - Human CAMK2G knockout HeLa cell lysate (ab258340)

Allele-1: 2 bp deletion in exon4

```
Mut  CCCTCAGAAAGTGGCACTTACAGGTCAAAC - CGAGGTAGTAAAACCCCTTCTTCAGAAATA
      |||
WT   CCCTCAGAAAGTGGCACTTACAGGTCAAACACGAGGTAGTAAAACCCCTTCTTCAGAAATA
```

Sanger Sequencing - Human CAMK2G knockout HeLa cell lysate (ab258340)

Allele-2: 1 bp deletion in exon4

```
Mut  CCCTCAGAAAGTGGCACTTACAGGTCAAACACGAGGTAGTAAAACCCCTTCTTCAGAAAT
      |||
WT   CCCTCAGAAAGTGGCACTTACAGGTCAAAC ACGAGGTAGTAAAACCCCTTCTTCAGAAAT
```

Sanger Sequencing - Human CAMK2G knockout HeLa cell lysate (ab258340)

Allele-3: 1 bp insertion in exon4

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