abcam

Product datasheet

Human GSTK1 knockout HEK-293T cell lysate ab257461

3 Images

Overview

Product name	Human GSTK1 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: 1 bp insertion 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. *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). <i>This means that the protein of interest is denatured.</i> 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.		
	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 <u>limited use license</u> and <u>patent pages</u> .		
Tested applications	Suitable for: WB		

Properties

Storage instructions	Store at -80°C. Please refer to protocols.	
Components		1 kit
ab260243 - Human GSTK1 knockout HEK293T cell lysate		1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate		1 x 100µg
Cell type	epithelial	
STR Analysis	Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 7, 9.3 TPOX: 11 CSF1PO: 11, 12	13 vWA: 16, 19 TH01:
Target		
Function	Significant glutathione conjugating activity is found only with the model substrate, 1-chloro-2,4- dinitrobenzene (CDNB).	
Tissue specificity	Ubiquitous.	
Sequence similarities	Belongs to the GST superfamily. Kappa family.	
Cellular localization	Peroxisome.	

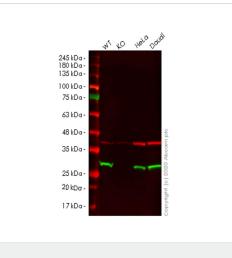
Applications

The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab257461 in the following tested applications.

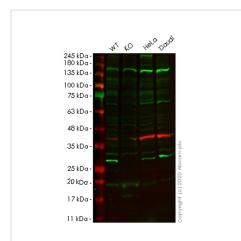
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 25 kDa.

Images



Western blot - Human GSTK1 knockout HEK293T cell lysate (ab257461)



Western blot - Human GSTK1 knockout HEK293T cell lysate (ab257461)

Sanger Sequencing - Human GSTK1 knockout HEK293T cell lysate (ab257461) Lane 1:Wild-type HEK293T cell lysate (20 ug) Lane 2:GSTK1 knockout HEK293T cell lysate (20 ug) Lane 3:HeLa cell lysate (20 ug) Lane 4:Daudi cell lysate (20 ug)

ab52759 was shown to specifically react with GSTK1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266112** (knockout cell lysate ab257461) was used. Wildtype and GSTK1 knockout samples were subjected to SDS-PAGE. **ab52759** 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.

Lane 1:Wild-type HEK293T cell lysate (20 ug) Lane 2:GSTK1 knockout HEK293T cell lysate (20 ug) Lane 3:HeLa cell lysate (20 ug) Lane 4:Daudi cell lysate (20 ug)

<u>ab134173</u> was shown to specifically react with GSTK1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line <u>ab266112</u> (knockout cell lysate ab257461) was used. Wildtype and GSTK1 knockout samples were subjected to SDS-PAGE. <u>ab134173</u> and Anti-GAPDH antibody [6C5] - Loading Control (<u>ab8245</u>) 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 (<u>ab216773</u>) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preadsorbed (<u>ab216776</u>) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

Homozygous: 1 bp insertion in exon 1

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