

Product datasheet

Human GOLM1 (GOLPH2) knockout HEK-293T cell lysate ab257976

2 Images

Overview

Product name	Human GOLM1 (GOLPH2) 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 3.
Passage number	<20
Knockout validation	Sanger Sequencing
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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Properties

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

Components	1 kit
ab260409 - Human GOLM1 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, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

Target

Function Unknown. Cellular response protein to viral infection.

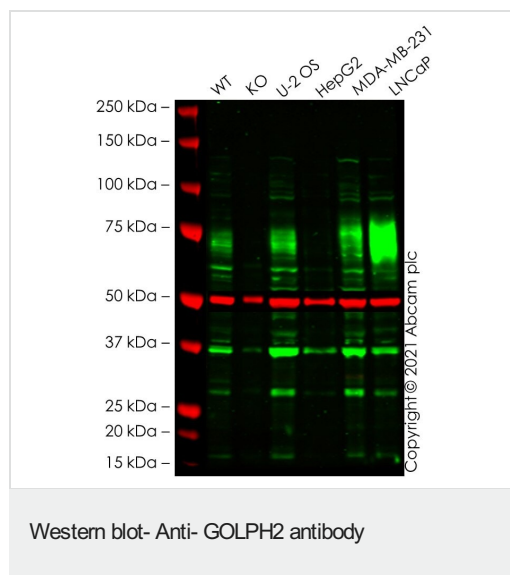
Tissue specificity Widely expressed. Highly expressed in colon, prostate, trachea and stomach. Expressed at lower level in testis, muscle, lymphoid tissues, white blood cells and spleen. Predominantly expressed by cells of the epithelial lineage. Expressed at low level in normal liver. Expression significantly increases in virus (HBV, HCV) infected liver. Expression does not increase in liver disease due to non-viral causes (alcohol-induced liver disease, autoimmune hepatitis). Increased expression in hepatocytes appears to be a general feature of advanced liver disease. In liver tissue from patients with adult giant-cell hepatitis (GCH), it is strongly expressed in hepatocyte-derived syncytial giant cells. Constitutively expressed by biliary epithelial cells but not by hepatocytes.

Sequence similarities Belongs to the GOLM1/CASC4 family.

Post-translational modifications Glycosylated.
Phosphorylation sites are present in the extracellular medium.

Cellular localization Golgi apparatus > cis-Golgi network membrane. Early Golgi. Cycles via the cell surface and endosomes upon luminal pH disruption.

Images



Lane 1: Wild-type HEK-293T cell lysate, 10 ug

Lane 2: GOLM1 knockout HEK-293T cell lysate, 10 ug

Lane 3: U-2 OS cell lysate, 20 ug

Lane 4: HepG2 cell lysate, 20 ug

Lane 5: MDA-MB-231 cell lysate, 20 ug

Lane 6: LNCaP cell lysate, 20 ug

False colour image of Western blot: Anti-GOLPH2 antibody [OTI6C9] staining at 1/500 dilution, shown in green; Rabbit anti-alpha Tubulin antibody [EP1332Y] ([ab52866](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab119800](#) was shown to bind specifically to GOLPH2. A band was observed at 70-75 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in GOLM1 knockout cell line [ab266505](#) (knockout cell lysate ab257976). To generate this image, wild-type and GOLM1 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5% milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216777](#)) at 1/20000 dilution.



Homozygous: 1 bp insertion in exon 3

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