

PSKH2 Knockout HEK293T Trizol Lysate

产品编号	产品名称	包装
L30024	PSKH2 Knockout HEK293T Trizol Lysate	500μl

产品简介:

- PSKH2 Knockout HEK293T Trizol Lysate (PSKH2基因敲除HEK293T细胞Trizol裂解液)是通过同时表达Cas9、目的基因sgRNA和puromycin抗性基因,并实现了目的基因CRISPR敲除的多克隆HEK293T细胞的Trizol裂解液。该细胞中目的基因的敲除已通过T7EI法的验证。本产品可用于该目的基因敲除后其信号通路相关RNA表达的研究。
- 本Trizol裂解液源于可同时表达Cas9、目的基因sgRNA和puromycin抗性基因的慢病毒感染HEK293T细胞并经过puromycin筛选后获得的多克隆HEK293T细胞。制备该细胞的相应慢病毒的基因序列的关键图谱信息请参考图1。



图1. 可同时表达sgRNA、Cas9和puromycin抗性的慢病毒其基因序列的关键图谱信息。

- 该细胞中目的基因的敲除已经通过T7EI法的验证。
- 由于本细胞是通过CRISPR/Cas9技术获得的多克隆细胞,基于CRISPR/Cas9技术的特点,理论上平均有2/3的细胞发生移码突变而导致了目的基因的敲除,平均有1/3的细胞并未发生移码突变。很多情况下有约2/3的细胞发生目的基因的敲除,已经足以进行很多的目的基因的生物学功能的研究了。如果希望获得100%基因敲除的细胞,可以自行使用本产品筛选单克隆细胞,或者委托碧云天进行单克隆细胞株的筛选服务。
- 本Trizol裂解液用于实验时,建议同时选购无任何靶向的对照细胞Trizol裂解液Control Knockout HEK293T Trizol Lysate (L00031)或靶向GFP的对照Trizol裂解液GFP Knockout HEK293T Trizol Lysate (L00033)。
- 碧云天同时提供基于CRISPR/Cas9技术的PSKH2基因敲除的质粒(L30020 pLenti-PSKH2-sgRNA)、慢病毒(L30021 PSKH2 Knockout Lentivirus)、HEK293T细胞(L30022 PSKH2 Knockout HEK293T Cells)、HEK293T敲除细胞的RIPA裂解液(L30023 PSKH2 Knockout HEK293T RIPA Lysate)、HEK293T敲除细胞的Trizol裂解液(L30024 PSKH2 Knockout HEK293T Trizol Lysate)等产品,具体请在碧云天网站查询或在本产品网页点击相应产品。
- PSKH2基因的基本信息如下:

Species	Gene Symbol	Gene ID	GenBank Accession	Transcript
Human	PSKH2	85481	BC126180	NM_033126

About the gene	
Official Symbol	PSKH2
Previous Symbol	-
Official Full Name	protein serine kinase H2
Synonyms	-
Location	8q21.3
Gene Type	protein-coding gene
Uniprot ID	Q96QS6
Pathway/Library	others
Gene Summary	On the human kinome tree, a distinct 'dark' pseudokinase, termed PSKH2, is also most similar to canonical members of the CAMK1/2 arm of the kinome, where it forms a two - member group of 'protein serine histone kinases'. The biology of PSKH2 remains obscure, but it is most closely related to the Golgi - associated canonical kinase PSKH1, which is a catalytically active member of the Ca ²⁺ - CAM - dependent protein kinases. Although PSKH1 and PSKH2 share many features in canonical catalytic residues, they also possess subtle differences when evaluated side - by - side most notably a validated Golgi - targeting motif that is embedded in the N - terminal region of PSKH1 that is conspicuously absent in PSKH2. This makes it unlikely, but theoretically still possible, that putative noncatalytic functions of PSKH2 might be performed by PSKH1 in organisms lacking PSKH2. In

	contrast, this pseudokinase - specific region deletion in PSKH2 hints at distinct spatial and membrane identity - determining roles that are distinct between each of the two proteins, although it is of interest that the putative SH3 binding motif found in PSKH1 is also conserved in PSKH2, as are putative sites of myristoylation and palmitoylation at the N - terminal second Gly and third Cys positions, respectively. Dual acylation of PSKH1 has been shown to be important for Golgi targeting, whilst nonpalmitoylated PSKH1 remains in the ER. PSKH2 suggests interesting features that distinguish it from PSKH1, but which might also make it a useful model for studying evolutionary and functional constraints that underlie the conversion between canonical kinase PSKH1 and pseudokinase PSKH2.
--	--

包装清单:

产品编号	产品名称	包装
L30024	PSKH2 Knockout HEK293T Trizol Lysate	500µl
—	说明书	1份

保存条件:

-20°C保存, 至少6个月有效; -80°C保存, 至少一年有效。

注意事项:

- 碧云天拥有sgRNA序列的知识产权, 如果需要sgRNA序列, 请在订购后发送邮件向info@beyotime.com索取。sgRNA序列信息与本产品, 未经碧云天书面许可不得用于任何商业用途, 也不得移交给订货人所在实验室外的任何个人或单位。使用者在发表研究论文或结果时, 应注明来源。
- 对于非目录产品的CRISPR基因敲除细胞Trizol裂解液的定制, 可联系碧云天技术服务service@beyotime.com。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

使用说明:

1. 本细胞Trizol裂解液中含有不少于 1×10^6 个细胞。
2. 按照碧云天的Trizol (总RNA抽提试剂) (R0016)中的使用说明进行RNA的抽提: <https://www.beyotime.com/product/R0016.htm>; 或按照Invitrogen™的TRIzol™ Reagent的使用说明进行RNA的抽提, 后续可以用于反转录、qRT-PCR、NGS等各种常见用途。

相关产品:

产品编号	产品名称	包装
L00031	Control Knockout HEK293T Trizol Lysate	500µl
L00033	GFP Knockout HEK293T Trizol Lysate	500µl
D7166	BeyoRT™ cDNA第一链合成试剂盒(RNase H-)	10次
D7168	BeyoRT™ II cDNA第一链合成试剂盒(RNase H-)	20/100/500次
D7170	BeyoRT™ II cDNA合成试剂盒(with gDNA Eraser)	20/100/500次
D7178	BeyoRT™ III cDNA第一链合成试剂盒	20/100/500次
D7180	BeyoRT™ III cDNA合成试剂盒 (with gDNA EZeraser)	20/100/500次
D7182	BeyoRT™ III cDNA第一链合成预混液(5X)	20/100/500次
D7185	BeyoRT™ III cDNA合成预混液(5X) (with gDNA EZeraser)	20/100/500次
D7260	BeyoFast™ SYBR Green qPCR Mix (2X)	1/5/25ml
D7262	BeyoFast™ SYBR Green qPCR Mix (2X, Low ROX)	1/5/25ml
D7265	BeyoFast™ SYBR Green qPCR Mix (2X, High ROX)	1/5/25ml
D7268	BeyoFast™ SYBR Green One-Step qRT-PCR Kit	100/500次
D7271	BeyoFast™ Probe qPCR Mix (2X)	1/5/25ml
D7272	BeyoFast™ Probe qPCR Mix (2X, Low ROX)	1/5/25ml
D7273	BeyoFast™ Probe qPCR Mix (2X, High ROX)	1/5/25ml
D7277	BeyoFast™ Probe One-Step qRT-PCR Kit	100/500次
R0011	Beyozol (总RNA抽提试剂)	100ml
R0016	Trizol (总RNA抽提试剂)	100ml

