

C1QTNF6 Knockout HEK293T RIPA Lysate

产品编号	产品名称	包装
L12588	C1QTNF6 Knockout HEK293T RIPA Lysate	100µg

产品简介:

- C1QTNF6 Knockout HEK293T RIPA Lysate (C1QTNF6基因敲除HEK293T细胞RIPA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RIPA裂解液。该细胞中目的基因的敲除已经通过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蛋白的研究,也可以用于该基因相应抗体的验证。
- 本RIPA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RIPA裂解液用于实验时,建议同时选购无任何靶向的对照细胞RIPA裂解液Control Knockout HEK293T RIPA Lysate (L00025)或靶向GFP的对照RIPA裂解液GFP Knockout HEK293T RIPA Lysate (L00027)。
- 碧云天同时提供基于CRISPR/Cas9技术的C1QTNF6基因敲除的质粒(L12585 pLenti-C1QTNF6-sgRNA)、慢病毒(L12586 C1QTNF6 Knockout Lentivirus)、HEK293T细胞(L12587 C1QTNF6 Knockout HEK293T Cells)、HEK293T敲除细胞的RIPA裂解液(L12588 C1QTNF6 Knockout HEK293T RIPA Lysate)、HEK293T敲除细胞的Trizol裂解液(L12589 C1QTNF6 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。
- 用于制备本产品的RIPA裂解液为碧云天生产的P0013B RIPA裂解液(强),其具体组分请查阅产品网页或说明书。
- C1QTNF6基因的基本信息如下:

Species	Gene Symbol	Gene ID	GenBank Accession	Transcript
Human	C1QTNF6	114904	BC020551	NM_182486

About the gene	
Official Symbol	C1QTNF6
Previous Symbol	-
Official Full Name	C1q and TNF related 6
Synonyms	CTRP6; ZACRP6
Location	22q12.3
Gene Type	protein-coding gene
Uniprot ID	Q9BXI9
Pathway/Library	Lung Cancer Growth Related Genes Library
Gene Summary	C1q and tumor necrosis factor superfamily are involved in several biological processes, including inflammation, apoptosis and cell differentiation. C1q/tumor necrosis factor-related proteins (CTRP proteins) have been revealed to serve a role in carcinogenesis and cancer progression. The C1q/TNF-related protein family is comprised of 16 CTRP members, CTRP1-9, 9B. Among these, CTRP3, CTRP4 and C1QTNF6 have been revealed to be associated with tumor promotion. All CTRP members are secreted proteins, and are widely expressed in various tissues and cell types. CTRP4 was demonstrated to function as a tumor-promoting inflammatory regulator, and to promote tumor cell survival and reduce

	drug-induced apoptosis. These findings strongly suggested that CTRP4 is a potential therapeutic target. CTRP8 was reported to be involved in brain cancer. It was also demonstrated to enhance motility and matrix invasion by human glioblastoma cells. CTRP8-induced migration of human glioma cells was revealed to be inhibited by a small competitor peptide derived from C1QTNF6. Western blotting experiments have demonstrated that C1QTNF6 is highly expressed in human hepatocellular carcinoma tissues. An immunohistochemistry assay indicated that C1QTNF6 is mainly localized in hepato-cellular carcinoma cells and endothelial cells in tumor tissues. High expression of C1QTNF6 was revealed to activate the Akt signaling pathway, increase tumor angiogenesis and reduce the necrosis of HepG2 cells. C1QTNF6-interference was revealed to inhibit the Erk1/2 signaling pathway in 3T3-L1 adipocytes. C1QTNF6 was also revealed to serve as an endogenous complement regulator that exhibited a prominent therapeutic effect in arthritis. It was also demonstrated that C1QTNF6 inhibited fibrogenesis by TGF- β 1-stimulated human dermal fibroblasts.
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包装清单:

产品编号	产品名称	包装
L12588	C1QTNF6 Knockout HEK293T RIPA Lysate	100 μ g
—	说明书	1份

保存条件:

-20°C保存, 3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RIPA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. 细胞RIPA裂解液样品的蛋白浓度测定:

推荐使用碧云天生产的BCA蛋白浓度测定试剂盒(P0009/P0010/P0010S/P0011/P0012/P0012S)测定蛋白浓度。由于本产品含有较高浓度的去垢剂, 不建议使用Bradford法测定本产品的蛋白浓度。RIPA裂解液的使用说明请参考:
<https://www.beyotime.com/product/P0013B.htm>。

2. 细胞RIPA裂解液的使用:

本RIPA裂解液测定浓度后加入SDS-PAGE蛋白上样缓冲液即可用于SDS-PAGE、Western检测、以及目的基因抗体的验证等。

相关产品:

产品编号	产品名称	包装
L00025	Control Knockout HEK293T RIPA Lysate	100 μ g
L00027	GFP Knockout HEK293T RIPA Lysate	100 μ g
P0009	BCA蛋白浓度测定试剂盒(增强型)	5000次
P0010	BCA蛋白浓度测定试剂盒(增强型)	500次
P0010S	BCA蛋白浓度测定试剂盒(增强型)	200次
P0011	BCA蛋白浓度测定试剂盒	5000次
P0012	BCA蛋白浓度测定试剂盒	500次
P0012S	BCA蛋白浓度测定试剂盒	200次
P0012A	SDS-PAGE凝胶配制试剂盒	可制30-50块胶
P0012AC	SDS-PAGE凝胶快速配制试剂盒	可制30-50块胶
P0013B	RIPA裂解液(强)	100ml
P0014A/B	SDS-PAGE电泳液(Tris-Gly, Powder)	1/10L
P0014C/D	SDS-PAGE电泳液(Tris-Gly, 10X)	100/500ml
P0015	SDS-PAGE蛋白上样缓冲液(5X)	2ml
P0015L	SDS-PAGE蛋白上样缓冲液(5X)	15ml
P0015B	SDS-PAGE蛋白上样缓冲液(2X)	5ml
P0015F	SDS-PAGE蛋白上样缓冲液(6X)	2ml

