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技术咨询: info@beyotime.com 网址: http://www.beyotime.com

# **SLAMF1 Knockout HEK293T RIPA Lysate**

产品编号	产品名称	包装
L30888	SLAMF1 Knockout HEK293T RIPA Lysate	100μg

# 产品简介:

- ➤ SLAMF1 Knockout HEK293T RIPA Lysate (SLAMF1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。

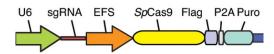


图1. 可同时表达sgRNA、Cas9和puromycin抗性的慢病毒其基因序列的关键图谱信息。

- ➤ 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SLAMF1基因敲除的质粒(L30885 pLenti-SLAMF1-sgRNA)、慢病毒(L30886 SLAMF1 Knockout Lentivirus)、HEK293T细胞(L30887 SLAMF1 Knockout HEK293T Cells)、HEK293T敲除细胞的RIPA裂解液(L30888 SLAMF1 Knockout HEK293T RIPA Lysate)、HEK293T敲除细胞的Trizol裂解液(L30889 SLAMF1 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。
- ➤ SLAMF1基因的基本信息如下:

Species	Gene Symbol	Gene ID	GenBank Accession	Transcript
Human	SLAMF1	6504	BC012602	NM_001330754

About the gene	
Official Symbol	SLAMF1
Previous Symbol	SLAM
Official Full Name	signaling lymphocytic activation molecule family member 1
Synonyms	CD150
Location	1q23.3
Gene Type	protein-coding gene
Uniprot ID	Q13291
Pathway/Library	others
Gene Summary	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. SLAMF1-induced signal-transduction events in T-lymphocytes are different from those in B-cells. Two modes of SLAMF1 signaling seem to exist: one depending on SH2D1A (and perhaps SH2D1B) and another in which protein-tyrosine phosphatase 2C

(PTPN11)-dependent signal transduction operates. Initially it has been proposed that association with SH2D1A prevents binding to inhibitory effectors including INPP5D/SHIP1 and PTPN11/SHP-2 (PubMed:11806999). However, signaling is also regulated by SH2D1A which can simultaneously interact with and recruit FYN which subsequently phosphorylates and activates SLAMF1 (PubMed:12458214). Mediates IL-2-independent proliferation of activated T-cells during immune responses and induces IFN-gamma production (By similarity). Downstreaming signaling involves INPP5D, DOK1 and DOK2 leading to inhibited IFN-gamma production in T-cells, and PRKCQ, BCL10 and NFKB1 leading to increased T-cell activation and Th2 cytokine production (By similarity). Promotes T-cell receptor-induced IL-4 secretion by CD4(+) cells (By similarity). Inhibits antigen receptor-mediated production of IFN-gamma, but not IL-2, in CD4(-)/CD8(-) T-cells (By similarity). Required for IL-4 production by germinal centers T follicular helper (T(Fh))cells (By similarity). May inhibit CD40-induced signal transduction in monocyte-derived dendritic cells (PubMed:16317102). May play a role in allergic responses and may regulate allergen-induced Th2 cytokine and Th1 cytokine secretion (By similarity). In conjunction with SLAMF6 controls the transition between positive selection and the subsequent expansion and differentiation of the thymocytic natural killer T (NKT) cell lineage. Involved in the peripheral differentiation of indifferent natural killer T (iNKT) cells toward a regulatory NKT2 type (By similarity). In macrophages involved in down-regulation of IL-12, TNF-alpha and nitric oxide in response to lipopolysaccharide (LPS) (By similarity). In B-cells activates the ERK signaling pathway independently of SH2D1A but implicating both, SYK and INPP5D, and activates Akt signaling dependent on SYK and SH2D1A (By similarity). In B-cells also activates p38 MAPK and JNK1 and JNK2 (PubMed:20231852). In conjunction with CD84/SLAMF5 and SLAMF6 may be a negative regulator of the humoral immune response (By similarity). Involved in innate immune response against Gram-negative bacteria in macrophages; probably recognizes OmpC and/or OmpF on the bacterial surface, regulates phagosome maturation and recruitment of the PI3K complex II (PI3KC3-C2) leading to accumulation of PdtIns(3)P and NOX2 activity in the phagosomes (PubMed:20818396). SLAF1 HUMAN,Q13291 (Microbial infection) Acts as a receptor for Measles virus; also including isoform 4. SLAF1\_HUMAN,Q13291

# 包装清单:

产品编号	产品名称	包装
L30888	SLAMF1 Knockout HEK293T RIPA Lysate	100μg
_	说明书	1份

## 保存条件:

-20℃保存,3个月有效;-80℃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	100μg
L00027	GFP Knockout HEK293T RIPA Lysate	100μg
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	11 BCA蛋白浓度测定试剂盒	

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

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