

Cuproptosis Essentials Antibody Sampler Kit

Catalog Number: PK30028

产品介绍

Cuproptosis Essentials Antibody Sampler Kit为研究铜死亡通路中的关键蛋白提供了一种经济有效的工具。对于开始新项目的研究人员、筛选多个潜在目标的研究人员或那些仅仅需要较少体积抗体的研究人员来说是非常适合的。

产品成分

Cuproptosis Essentials Antibody Sampler Kit包含5个用于研究铜死亡通路中的关键蛋白靶点的抗体。

Antigen	Catalog No.	Host, clonality	Tested Reactivity	Applications	Volume
FDX1	82957-2-RR	Rabbit Monoclonal	H	WB, IHC, IF/ICC, F C (Intra)	20 uL
DLAT	83654-3-RR	Rabbit Monoclonal	H, M, Rt	WB, IHC, IF/ICC, F C (Intra)	20 uL
LIAS	11577-1-AP	Rabbit Polyclonal	H, M, Rt	WB, IHC, IF, IP	20 uL
SLC31A1	67221-1-Ig	Mouse Monoclonal	H	WB, IHC, IF-P	20 uL
DLD	67702-1-Ig	Mouse Monoclonal	H, M, Rt	WB, IHC	20 uL

如果此试剂盒中的抗体不满足您的需求，请参考我们的“[Cuproptosis Expanded Antibody Sampler Kit](#)”。

包装规格

5× 20 uL

保存条件

-20℃保存。自收到之日起一年内保持稳定。

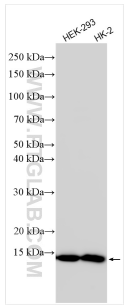
背景介绍

铜死亡是一种新型的细胞死亡机制，由细胞内过量铜离子的积累引发。这会促进脂肪分解异常和蛋白质聚集，导致氧化应激及线粒体活性受损。铜死亡的关键调节蛋白包括 DLAT、FDX1 和 LIAS。DLAT 作为丙酮酸脱氢酶复合体（PDC）的关键组成部分，是脂肪酰化和激活三羧酸循环中的酶所必需的。在铜死亡过程中，铜含量的增加会导致脂肪酰化异常和DLAT聚集，从而发生线粒体功能障碍和细胞死亡。合成硫辛酸所需的 LIAS 可保持TCA 循环酶（如 DLAT）的稳定和活性。LIAS 功能的失调会导致脂酰化蛋白质病理性聚集，从而导致铜死亡。FDX1 有助于调节细胞对铜诱导的应激反应。它有助于还原铁硫（Fe-S）簇并参与调节铜离子平衡和氧化还原过程。SLC31A1和DLD等其他蛋白质的失调也可能分别有助于增加铜的吸收及对铜死亡的敏感性。

标准实验流程

点击[此处](#)查看我们用于各种应用的标准流程，包括WB、IP、IHC、IF、FC和ELISA。

Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82957-2-RR (FDX1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Various lysates were subjected to SDS PAGE followed by western blot with 83654-3-RR (DLAT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Various lysates were subjected to SDS PAGE followed by western blot with 67298-1-Ig (LIAS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

HepG2 cells were subjected to SDS PAGE followed by western blot with 67221-1-Ig (SLC31A1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.

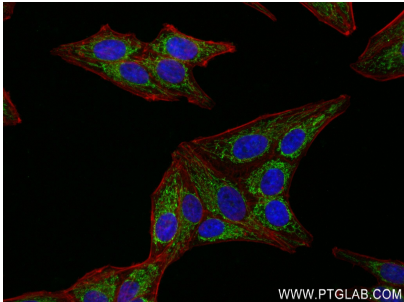
Various lysates were subjected to SDS PAGE followed by western blot with 67702-1-Ig (LIAS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 82957-2-RR (FDX1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9).

Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83654-3-RR (DLAT antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67298-1-Ig (LIAS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67221-1-Ig (SLC31A1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67702-1-Ig (DLD antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FDX1 antibody (82957-2-RR, Clone: 230196E9) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using DLAT antibody (83654-3-RR, Clone: 240713C12) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).

For technical support and original validation data for this product please contact

T: 027-87531629 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.