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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

cathepsin A (m): 293T Lysate: sc-126581

BACKGROUND

The cathepsin family of proteolytic enzymes include several diverse classes of proteases. Cathepsins B, L, H, K, S and O comprise the cysteine protease class. Cathepsins D and E comprise the aspartyle protease class. The serine protease class includes cathepsin G. Cathepsins function in cellular metabolism and participate in peptide biosynthesis and protein degradation. Cathepsin A, a serine carboxypeptidase, exists in a high molecular weight lysosomal complex with β -Galactosidase (β -Gal) and α -neuraminidase (Neu1). Cathepsin A functions to protect β -Gal and Neu1 from intralysosomal proteolysis. Deficiencies in cathepsin A lead to deficiencies in β -Gal and Neu1. The gene encoding human cathepsin A maps to chromosome 20q13.1. Mutations in this gene cause galactosialidosis, a lysosomal storage disorder resulting from the β -Gal and Neu1 deficiencies.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ppqb (mouse) mapping to 2 H3.

PRODUCT

cathepsin A (m): 293T Lysate represents a lysate of mouse cathepsin A transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

cathepsin A (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive cathepsin A antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.