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Atg10 (m): 293T Lysate: sc-118605

BACKGROUND

Autophagy, a process that results in the lysosomal-dependent degradation of cytosolic compartments, is carried out by the autophagosome, which is a double-membrane vesicle whose formation is catalyzed by several autophagy-related gene (Atg) proteins. Atg10 (autophagy-related gene 10), also known as PP12616 or APG10L, is a 220 amino acid protein that localizes to the cytoplasm and plays a role in autophagy, specifically functioning as an E2-like enzyme that provides Atg recognition sites during autophagosome synthesis. Atg10 exists as two isoforms which are produced as a result of alternative splicing events. The gene encoding Atg10 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: Atg10 (mouse) mapping to 13 C3.

PRODUCT

Atg10 (m): 293T Lysate represents a lysate of mouse P-N transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Atg10 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Atg10 antibodies. Recommended use: 10-20 µl 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.