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Lieferung & Zahlungsart

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- Mindermengenzuschlag
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- Expressversand

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SANTA CRUZ BIOTECHNOLOGY, INC.

KLK11 (h): 293 Lysate: sc-158662

BACKGROUND

Kallikreins (KLKs) belong to the serine protease family of proteolytic enzymes. Human pancreatic/renal KLK encodes for the KLK1 enzyme, which is involved in posttranslational processing of polypeptide precursors. The function of the other members of KLK gene family is still currently unknown, but evidence suggests that many KLKs are implicated in carcinogenesis. The human KLK gene family consists of 15 serine proteases. The human KLK genes are clustered on chromosome 19q13. Unlike other kalllikreins, the KLK4-15 encoded proteases are less related and do not contain a conventional KLK loop. Clusters of genes exhibit high prostatic (KLK2-4, KLK15) or pancreatic (KLK6-13) expression. KLK2 is also known as glandular kallikrein 2, tissue kallikrein, or HGK-1 and KLK3 is known as prostate-specific antigen (PSA). Both KLK2 and KLK3 have important applications in prostate cancer and breast cancer diagnostics. KLK4, KLK5, KLK9, KLK13, KLK12 and KLK14 have been previously known as KLK-L1, KLK-L2, KLK-L3, KLK-L4, KLK-L5 and KLK-L6, respectively. Many of the KLKs are regulated by steroid hormones and a few of them, specifically KLK3, 6 and 10 are known to be downregulated in breast and other cancers.

REFERENCES

1. Diamandis, E.P., et al. 2000. The new human kallikrein gene family: implications in carcinogenesis. Trends Endocrinol. Metab. 11: 54-60.
2. Yousef, G.M., et al. 2000. Genomic organization of the human kallikrein gene family on chromosome 19q13.3-q13.4. Biochem. Biophys. Res. Commun. 276: 125-133.
3. Shimizu-Okabe, C., et al. 2001. Expression of the kallikrein gene family in normal and Alzheimer's disease. Neuroreport 12: 27447-27451.
4. Yousef, G.M., et al. 2001. Cloning of a new member of the human kallikrein gene family, KLK14, which is downregulated in different malignancies. Cancer Res. 61: 3425-3431.
5. Clements, J., et al. 2001. The expanded human kallikrein (KLK) gene family: genomic organization, tissue-specific expression and potential functions. Biol. Chem. 382: 5-14.
6. Yousef, G.M., et al. 2001. Molecular cloning of the human kallikrein 15 gene (KLK15). Upregulation in prostate cancer. J. Biol. Chem. 276: 53-61.

CHROMOSOMAL LOCATION

Genetic locus: KLK11 (human) mapping to 19q13.41.

PRODUCT

KLK11 (h): 293 Lysate represents a lysate of human KLK11 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

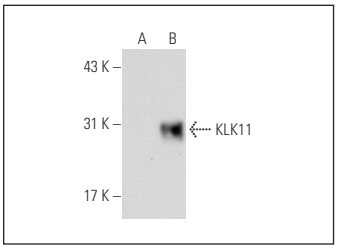
APPLICATIONS

KLK11 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive KLK11 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

KLK11 (X212): sc-80143 is recommended as a positive control antibody for Western Blot analysis of enhanced human KLK11 expression in KLK11 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



KLK11 (X212): sc-80143. Western blot analysis of KLK11 expression in non-transfected: sc-110760 (**A**) and human KLK11 transfected: sc-158662 (**B**) 293 whole cell lysates.

PROTOCOLS

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