



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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) 

AMBP (m): 293T Lysate: sc-124965

BACKGROUND

The AMBP (α -1-Microglobulin/Bikunin precursor) gene encodes a protein precursor that is cleaved to produce two distinct proteins, designated α -1-Microglobulin and Bikunin. α -1-Microglobulin, also designated protein HC, is a member of the lipocalin superfamily and is secreted mainly in plasma, urine and cerebrospinal fluid. Thought to have reductase/dehydrogenase activity, α -1-Microglobulin exhibits immunosuppressive properties, such as cytokine secretion and inhibition of antigen-induced lymphocyte cell proliferation, and may be involved in the reduction of biological pro-oxidants. The second protein cleavage product, designated Bikunin (also known as inter- α -trypsin inhibitor light chain, ITI-LC or urinary trypsin inhibitor), is a widely expressed protein that is stored in the granules of human connective tissue mast cells. One of many proteins in the Kunitz-type protease inhibitor family, Bikunin prevents autodigestion by exocrine enzymes, such as trypsinogen and chymo-trypsinogen, and plays a role in the antiinflammatory/antiprotease immune response. Unlike α -1-Microglobulin, Bikunin is implicated in the pathogenesis of a number of renal diseases, such as urolithiasis.

REFERENCES

1. Vetr, H. and Gebhard, W. 1990. Structure of the human α -1-Microglobulin-Bikunin gene. *Biol. Chem. Hoppe-Seyler* 371: 1185-1196.
2. Cui, C.Y., Aragane, Y., Maeda, A., Piao, Y.L., Takahashi, M., Kim, L.H. and Tezuka, T. 1999. Bikunin, a serine protease inhibitor, is present on the cell boundary of epidermis. *J. Invest. Dermatol.* 113: 182-188.
3. Akerström, B., Lögdberg, L., Berggård, T., Osmark, P. and Lindqvist, A. 2000. α -1-Microglobulin: a yellow-brown lipocalin. *Biochim. Biophys. Acta* 1482: 172-184.
4. Okuyama, M., Yamaguchi, S. and Yachiku, S. 2003. Identification of Bikunin isolated from human urine inhibits calcium oxalate crystal growth and its localization in the kidneys. *Int. J. Urol.* 10: 530-535.
5. Suder, P., Bierzynska-Krzysik, A., Kraj, A., Brostedt, P., Mak, P., Stawikowski, M., Rolka, K., Nyberg, F., Fries, E. and Silberring, J. 2006. Identification of bikunin as an endogenous inhibitor of dynorphin convertase in human cerebrospinal fluid. *FEBS J.* 273: 5113-5120.
6. Akerström, B., Maghzal, G.J., Winterbourn, C.C. and Kettle, A.J. 2007. The lipocalin α -1-Microglobulin has radical scavenging activity. *J. Biol. Chem.* 282: 31493-31503.
7. Olsson, M.G., Allhorn, M., Olofsson, T. and Akerström, B. 2007. Up-regulation of α -1-Microglobulin by hemoglobin and reactive oxygen species in hepatoma and blood cell lines. *Free Radic. Biol. Med.* 42: 842-851.

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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: *Ambp* (mouse) mapping to 4 B3.

PRODUCT

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

APPLICATIONS

AMBP (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive AMBP 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.

RESEARCH USE

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