



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# CD23 (h): 293T Lysate: sc-116816

## BACKGROUND

The human leukocyte differentiation antigen CD23 (FCE2) is a type II integral membrane glycoprotein that is expressed on mature B cells, monocytes, eosinophils, platelets and dendritic cells. In mouse, CD23 is found only on mature B cells. CD23 is a low affinity IgE receptor that mediates IgE-dependent cytotoxicity and phagocytosis by macrophages and eosinophils. CD23 associates as an oligomer where cooperative binding of at least two lectin domains is required for high affinity IgE binding to CD23. It may play a role in antigen presentation by B cells by interacting with CD40. CD23 has been shown to be associated with the Fyn tyrosine kinase. The truncated molecule can be secreted, then function as a potent mitogenic growth factor. ADAM8, ADAM15 and MDC-L catalyze ectodomain shedding of CD23. Intestinal cells coexpress CD23a and CD23b, and the two splice forms show different localizations in polarized cells.

## REFERENCES

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2. Gordon, J., et al. 1991. Inhibition of interleukin 4 promoted CD23 production in human B lymphocytes by transforming growth factor  $\beta$ , interferons or anti-CD19 antibody is overridden on engaging CD40. *Eur. J. Immunol.* 21: 1917-1922.
3. Sugie, K., et al. 1991. Fyn tyrosine kinase associated with Fc  $\epsilon$  RII/CD23: possible multiple roles in lymphocyte activation. *Proc. Natl. Acad. Sci. USA* 88: 9132-9135.
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5. Sutton, B., et al. 1993. The human IgE network. *Nature* 366: 421-428.
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7. Yasui, T., et al. 1996. The roles of CD42 and CD23 in IgE regulation. *Adv. Exp. Med. Biol.* 409: 349-354.
8. Kishimoto, T., et al., eds. 1997. *Leukocyte Typing VI*. New York: Garland Press.
9. Cho, S.W., et al. 1997. B cell activation and Ig, especially IgE, production is inhibited by high CD23 levels *in vivo* and *in vitro*. *Cell. Immunol.* 10: 36-46.

## CHROMOSOMAL LOCATION

Genetic locus: FCER2 (human) mapping to 19p13.2.

## PRODUCT

CD23 (h): 293T Lysate represents a lysate of human CD23 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

CD23 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CD23 antibodies. Recommended use: 10-20  $\mu$ 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.