



# 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

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## IL-33 (m): 293T Lysate: sc-121048

### BACKGROUND

The interleukins (ILs) are a broad family of well characterized cytokines, primarily of hematopoietic cell origin. They are secreted by immune cells (mainly macrophages, B-cells or T-cells) that regulate a wide range of immune system functions. The specific functions of different interleukins vary from the regulation of inflammatory and immune responses to the regulation of other interleukins. IL-33 (interleukin 33), also known as DVS27, IL1F11, C9orf26 or NF-HEV, is a 270 amino acid secreted protein that belongs to the IL family. Expressed in tonsils and lymph nodes, IL-33 functions as a cytokine that is stimulated via interaction with ST2, an association that recruits a variety of proteins, including MyD88, IRAK-1 and TRAF6, and can also induce T helper-associated cytokine activity. IL-33 plays a role in the survival and adhesion of mast cells and may be involved in the control of endothelial cell activation.

### REFERENCES

1. Baekkevold, E.S., Roussigné, M., Yamanaka, T., Johansen, F.E., Jahnsen, F.L., Amalric, F., Brandtzaeg, P., Erard, M., Haraldsen, G. and Girard, J.P. 2003. Molecular characterization of NF-HEV, a nuclear factor preferentially expressed in human high endothelial venules. *Am. J. Pathol.* 163: 69-79.
2. Hayakawa, H., Hayakawa, M., Kume, A. and Tominaga, S. 2007. Soluble ST2 blocks interleukin-33 signaling in allergic airway inflammation. *J. Biol. Chem.* 282: 26369-26380.
3. Sanada, S., Hakuno, D., Higgins, L.J., Schreiter, E.R., McKenzie, A.N. and Lee, R.T. 2007. IL-33 and ST2 comprise a critical biomechanically induced and cardioprotective signaling system. *J. Clin. Invest.* 117: 1538-1549.
4. Allakhverdi, Z., Smith, D.E., Comeau, M.R. and Delespesse, G. 2007. Cutting edge: The ST2 ligand IL-33 potently activates and drives maturation of human mast cells. *J. Immunol.* 179: 2051-2054.
5. Iikura, M., Suto, H., Kajiwara, N., Oboki, K., Ohno, T., Okayama, Y., Saito, H., Galli, S.J. and Nakae, S. 2007. IL-33 can promote survival, adhesion and cytokine production in human mast cells. *Lab. Invest.* 87: 971-978.
6. Küchler, A.M., Pollheimer, J., Balogh, J., Sponheim, J., Manley, L., Sorensen, D.R., De Angelis, P.M., Scott, H. and Haraldsen, G. 2008. Nuclear interleukin-33 is generally expressed in resting endothelium but rapidly lost upon angiogenic or proinflammatory activation. *Am. J. Pathol.* 173: 1229-1242.
7. Palmer, G., Lipsky, B.P., Smithgall, M.D., Meininger, D., Siu, S., Talbot-Ayer, D., Gabay, C. and Smith, D.E. 2008. The IL-1 receptor accessory protein (AcP) is required for IL-33 signaling and soluble AcP enhances the ability of soluble ST2 to inhibit IL-33. *Cytokine* 42: 358-364.
8. Cherry, W.B., Yoon, J., Bartemes, K.R., Iijima, K. and Kita, H. 2008. A novel IL-1 family cytokine, IL-33, potently activates human eosinophils. *J. Allergy Clin. Immunol.* 121: 1484-1490.
9. Kakkar, R. and Lee, R.T. 2008. The IL-33/ST2 pathway: therapeutic target and novel biomarker. *Nat. Rev. Drug Discov.* 7: 827-840.

### 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.

### CHROMOSOMAL LOCATION

Genetic locus: Il33 (mouse) mapping to 19 C1.

### PRODUCT

IL-33 (m): 293T Lysate represents a lysate of mouse IL-33 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### APPLICATIONS

IL-33 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive IL-33 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.

### RESEARCH USE

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

### PROTOCOLS

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