

# IL-33 (Nessy-1): sc-517600

## 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

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## CHROMOSOMAL LOCATION

Genetic locus: IL33 (human) mapping to 9p24.1; IL33 (mouse) mapping to 19 C1.

## SOURCE

IL-33 (Nessy-1) is a mouse monoclonal antibody raised against recombinant IL-33 of human origin.

## PRODUCT

Each vial contains 50 µg IgG<sub>1</sub> kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

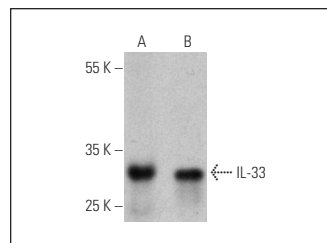
IL-33 (Nessy-1) is recommended for detection of IL-33 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IL-33 siRNA (h): sc-75333, IL-33 siRNA (m): sc-75334, IL-33 shRNA Plasmid (h): sc-75333-SH, IL-33 shRNA Plasmid (m): sc-75334-SH, IL-33 shRNA (h) Lentiviral Particles: sc-75333-V and IL-33 shRNA (m) Lentiviral Particles: sc-75334-V.

Molecular Weight of IL-33: 30 kDa.

Positive Controls: human bronchus extract: sc-363754 or human stomach extract: sc-363780.

## DATA



IL-33 (Nessy-1): sc-517600. Western blot analysis of IL-33 expression in human bronchus (A) and human stomach (B) tissue extracts.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. 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](http://www.scbt.com) for detailed protocols and support products.