

Mouse Anti-Human Interleukin-33 Monoclonal Antibody

Cat. No. CAB11566MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Interleukin-33
Species	Human
Source	Mouse
Antigen Description	Interleukin-33(IL-33), also known as DVS 27 and NF-HEV, is a proinflammatory protein and a chromatin-associated cytokine of the IL-1 family with high sequence and structural similarity to IL-1 and IL-18. IL-33 is expressed highly and rather selectively by high endothelial venule endothelial cells (HEVECs) in human tonsils, Peyer's patches, and lymph nodes. It contains a bipartite nuclear localization signal at the C-terminus, and is targeted to the nucleus when ectopically expressed in human umbilical vein endothelial cells (HUVECs) and HeLa cells. IL-33 mediates its biological effects via Toll-interleukin 1 receptor (TIR) domain-containing receptor ST2, activates NF-kappaB and MAP kinases, and drives production of T(H)2-associated cytokines. IL-33 induces the expression of IL-4, IL-5, and IL-13 and leads to severe pathological changes in mucosal organs.
Specificity	Human IL33. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	E.coli-derived rhIL-33
Isotype	MouseIgG2a

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Cross Reactivity	5B4H5H9
Clone	6C5I6I10
Applications	WB
Dilution	Western blot: This antibody can be used at 1 - 2µg /mL with the appropriate secondary reagents to detect IL-33 in WB. Using a DAB detection system, the detection limit for IL-33 is approximately 20ng/lane under reducing conditions and 100ng/lane non-reducing conditions.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, E.coli-derived, recombinant human IL-33 (rhIL-33; aa 112-270; NP_002296.1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for 1 month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL33 interleukin 33 [Homo sapiens]
Official Symbol	IL33
Synonyms	IL33; interleukin 33; C9orf26, chromosome 9 open reading frame 26 (NF HEV);

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interleukin-33; DKFZp586H0523; DVS27; DVS27 related protein; IL1F11; interleukin 1 family; member 11; NF HEV; nuclear factor for high endothelial venules; IL-33; IL-1F11; DVS27-related protein; interleukin-1 family member 11; nuclear factor from high endothelial venules; NF-HEV; NFEHEV; C9orf26; RP11-575C20.2;

Gene ID	90865
mRNA Refseq	NM_001199640
Protein Refseq	NP_001186569
MIM	608678
UniProt ID	O95760
Chromosome Location	9p24.1
Pathway	Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem;
Function	cytokine activity; protein binding;