

Anti-IL-33 [H02-8F11Hz01] Bulk Size Ab03650-1.1-BT

Isotype and Format: Mouse IgG1, Kappa

Clone Number: H02-8F11Hz01

Alternative Name(s) of Target: Interleukin-33; C9orf26; IL1F11; NFHEV; Interleukin-1 family member 11; IL-1F11; Nuclear factor from high endothelial venules; NF-HEV; H02-8F11Hz01-AM31; H02-8F11Hz01-MH3MK1

UniProt Accession Number of Target Protein: O95760

Published Application(s): functional assay, inhibit, Block, ELISA

Published Species Reactivity: Human, Cynomolgus Monkey, Mouse

Immunogen: The original mouse antibody was generated by immunizing BALB/c mice with Human interleukin-33 (Ser112-Thr270). The humanized version was generated by grafting CDRs from the parental mouse antibody onto human framework regions.

Specificity: This antibody binds an epitope between amino acid residues Ser112-Thr270 of the human IL-33. This antibody can also cross react with mouse and cynomolgus monkey IL-33. Interleukin 33 (IL-33). Interleukin 33 (IL-33) is a multifunctional cytokine which is constitutively expressed in structural cells such as smooth muscle cells, fibroblasts, mast cells, dendritic cells, macrophages, osteoblasts, epithelial cells, and endothelial cells. It is involved in the maturation of Th2 cells inducing the secretion of T-helper type 2-associated cytokines like IL-4, IL-5 and IL-13. It is also involved in activation of mast cells, basophils, eosinophils and natural killer cells. A study found that IL-33 is a bifunctional protein. On the one hand, IL-33 is localized in the nucleus and acts as a transcription factor; on the other hand, IL-33 is secreted outside the cell and acts as a cytokine by interacting with its receptor ST2.

Application Notes: This antibody is a humanized affinity matured version of original mouse antibody H02-8F11. The binding characterization of this antibody for human IL-33 was done using ELISA. This antibody can effectively block the binding of human IL33 protein to its receptor ST2 in vitro. This antibody also inhibited IL-33 induced secretion of IL-5 by Ku812 cells (CN112979802). The binding affinity of the IgG1 version antibody for human, mouse and cynomolgus monkey IL-33 was reported to be $K_d = 0.47$ nM, 0.15 nM and 0.3 nM respectively (CN113234157).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.