

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-33 Propeptide in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with mature recombinant human IL-33 and mature recombinant mouse IL-33 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IL-33 Propeptide Met1-Ser111 Accession # O95760
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IL-33 (interleukin 33; also NF-HEV and IL-1F11) is a 31-32 kDa member of the IL-1 family of proteins. It is expressed in endothelial cells and reportedly has two functions; first, it induces Th2-type cytokines, and second, it acts as a nuclear transcription factor. Human IL-33 is 270 amino acids (aa) in length. It contains a putative proregion (aa 1-111) and a mature segment (aa 112-270). The proregion contains a bipartite NLS (aa 61-78), plus an α -helical homeodomain-like HTH motif (aa 1-65). The HTH motif mediates nuclear localization and heterochromatin association. A potential caspase 1 cleavage site exists in human IL-33 (Ser111-Ser112), but not in IL-33 from canine, porcine or bovine. There is one splice variant that shows a deletion of aa 113-118. Over aa 1-111, human IL-33 propeptide is 45% aa identical to mouse IL-33 propeptide.

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