

ARG80228 Mouse IL33 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80228-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80228-002	Standard (Lyophilized)	2 X 3 ng/vial	4°C
ARG80228-003	Standard diluent buffer	20 ml	4°C
ARG80228-004	Antibody conjugate concentrate	400 µl	4°C
ARG80228-005	Antibody diluent buffer	16 ml	4°C
ARG80228-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80228-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80228-008	20X Wash buffer	50 ml	4°C
ARG80228-009	TMB substrate	12ml	4°C (Protect from light)
ARG80228-010	STOP solution	12ml	4°C
ARG80228-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80228 Mouse IL33 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse IL33 in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Mouse Pro-IL-33 (aa 1-108), ST2/IL-1 R4/Fc Chimera
Target Name	IL33
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	24 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	46.875 - 3000 pg/ml
Sample Volume	100 µl

Precision	CV: less than 10%
Alternate Names	95-270; NF-HEV; Interleukin-33; C9orf26; IL1F11; 99-270; Interleukin-1 family member 11; IL-33; IL-1F11; Nuclear factor from high endothelial venules; NFEHEV; DVS27; 109-270

Application Instructions

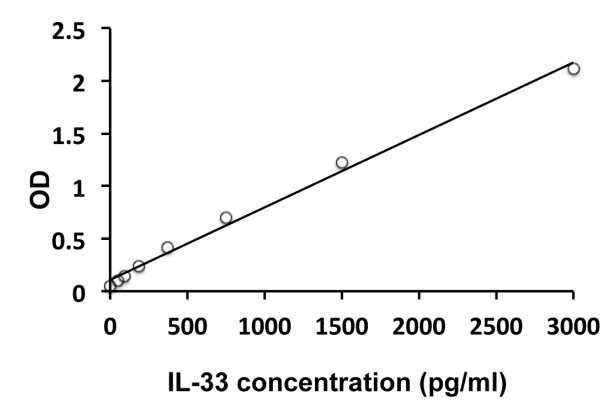
Assay Time	4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 77125 Mouse Swiss-port # Q8BVZ5 Mouse
Gene Symbol	IL33
Gene Full Name	interleukin 33
Background	<p>Interleukin-33 (IL-33) is a recently identified member of the IL-1 family of cytokines whose other members include IL-1α, IL-1β and IL-18. Its receptor has been shown to be ST2, an IL-1 receptor family member that also acts as a negative regulator of TLR-IL-1R signaling and IL-1R accessory protein (IL-1RAcP). Receptor binding of IL-33 activates NF-κB and MAP kinases and induces the expression of TH2-associated cytokines such as IL-4, IL-5 and IL-6. Prolonged IL-33 treatment of mice led to the development of eosinophilia, splenomegaly, and severe pathological changes in mucosal organs such as lungs, esophagus and small intestine. Recent experiments have shown that IL-33 can also co-localize with heterochromatin and possesses transcriptional repressor activities, indicating that IL-33 may function as both a proinflammatory cytokine and an intracellular nuclear factor with transcriptional regulatory properties. Despite its predicted molecular weight, IL-33 will often run at higher molecular weight in SDS-PAGE.</p>
Highlight	<p>Related products:</p> <p>IL33 antibodies; IL33 ELISA Kits; IL33 recombinant proteins;</p> <p>New ELISA data calculation tool:</p> <p>Simplify the ELISA analysis by GainData</p>
Research Area	Cell Biology and Cellular Response kit; Immune System kit
PTM	<p>The full length protein can be released from cells and is able to signal via the IL1RL1/ST2 receptor. However, proteolytic processing by CSTG/cathepsin G and ELANE/neutrophil elastase produces C-terminal peptides that are more active than the unprocessed full length protein. May also be proteolytically processed by calpains (PubMed:19596270). Proteolytic cleavage mediated by apoptotic caspases including CASP3 and CASP7 results in IL33 inactivation (PubMed:19559631). In vitro proteolytic cleavage by CASP1 was reported (PubMed:16286016) but could not be confirmed in vivo (PubMed:19465481) suggesting that IL33 is probably not a direct substrate for that caspase.</p>



ARG80228 Mouse IL33 ELISA Kit standard curve image

ARG80228 Mouse IL33 ELISA Kit results of a typical standard run with optical density reading at 450 nm.