

Product datasheet for **EA200015**

Human ST2 (IL-33R) ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human ST2 (IL-33R) ELISA Kit for the detection of Human ST2 in serum, plasma, and other biological fluids.
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich ELISA kit of Quantitative Detection for Human ST2
Assay Length:	4 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	156pg/ml-10000pg/ml
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human ST2 (IL-33R)
Sensitivity:	5.9pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">● ST2 Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate● Recombinant Human ST2 Standard (500ng/ml) 0.1 mL● 100x HRP conjugated ST2 Detection Antibody 0.12 mL● Assay Buffer 40 mL● Standard Diluent 12 mL● Wash Buffer Concentrate 20X 60 mL● TMB Substrate 12 mL● Stop Solution 12 mL● Plate Sealer 2 pieces



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Background:

Interleukin 1 receptor-like 1 (IL1RL1), also known as ST2, is a protein that in humans is encoded by the IL1RL1 gene. Two isoforms of ST2 were described in mammals: the membrane-bound ST2 (referred to as the ST2 receptor or ST2L), which provides the activation pathway, and the soluble ST2 (referred to as soluble ST2 or sST2) that originates from another promoter region of the il1rl1 gene and lacks the transmembrane and cytoplasmic domains. The ligand for ST2 is the cytokine Interleukin-33 (IL-33). There is clear correlation between T regulatory cell ST2 and Th2 specific transcription factor GATA3 expressions. Soluble ST2 is present in ST2+ T Regulatory cell. Releasing of sST2 into extracellular space cause neutralization of IL-33 and regulation of inflammation. ST2 Mutations have been linked to atopic dermatitis and asthma. The ST2 protein is also directly implicated in the progression of cardiac disease and is considered to be a cardiac biomarker. When the myocardium is stretched, the ST2 gene is upregulated, increasing the concentration of circulating sST2. The heart is subjected to greater stress in the presence of high levels of sST2. Binding of IL-33 to the ST2 receptor, in response to cardiac disease or injury, such as an ischemic event, elicits a cardioprotective effect resulting in preserved cardiac function.

Gene Symbol:

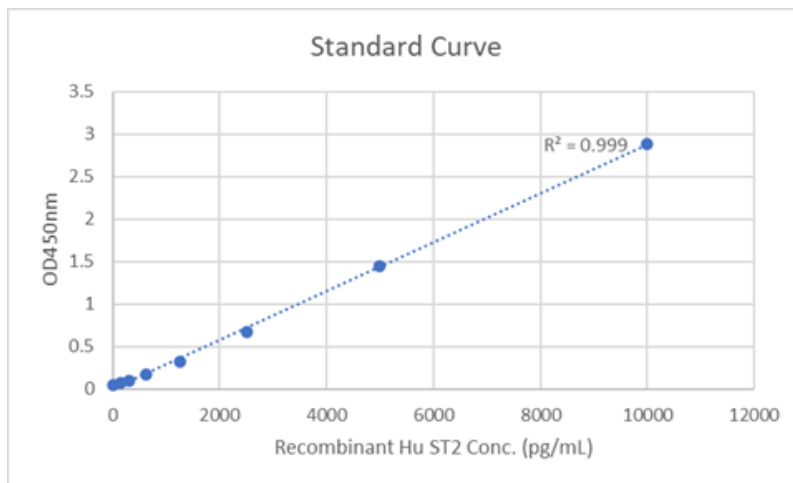
IL1RL1

Gene ID:

9173

Standard Curve:

□
Data image for ST2 ELISA Kit.

Product images:

Data image for ST2 ELISA Kit.