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Product datasheet for EA290003

Human ST2 (IL1RL1) ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human ST2 (IL1RL1) ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	1.5 hours incubations; 20min 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
Sensitivity:	15.5pg/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:	• ST2 Antibody Coated 96-well Plate in foil pouch with desiccant|1 plate • Recombinant Human ST2 Standard (500ng/ml)|0.1 mL • HRP conjugated CA12 Detection Antibody|2.5 mL • Standard & Sample Diluent1|25 mL • Sample Diluent220 mL • Wash Buffer Concentrate 20X|25 mL • TMB Substrate|12 mL • Stop Solution|12 mL • Plate Sealer|1 piece

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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 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 form of ST2 is present in ST2+ T Regulatory cell. Releasing of soluble ST2 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 soluble ST2. The heart is subjected to greater stress in the presence of high levels of soluble ST2. 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.

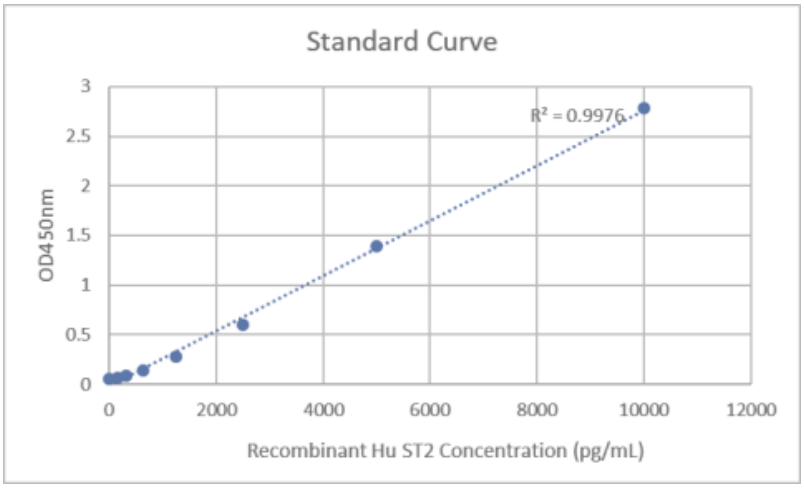
Gene Symbol: IL1RL1

Gene ID: 9173

Standard Curve:

Data image of Human ST2 (IL1RL1) ELISA Kit.

Product images:



Data image of Human ST2 (IL1RL1) ELISA Kit.