

For Research Use Only

ST2 Monoclonal antibody

Catalog Number: 60112-1-Ig **12 Publications**



Basic Information

Catalog Number: 60112-1-Ig	GenBank Accession Number: BC030975	Purification Method: Caprylic acid/ammonium sulfate precipitation
Size: 150ul , Concentration: 1500 µg/ml by Nanodrop;	GeneID (NCBI): 9173	CloneNo.: 7A2A7
Source: Mouse	UNIPROT ID: Q01638	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:100-1:400
Isotype: IgG1	Full Name: interleukin 1 receptor-like 1	
Immunogen Catalog Number: AG2555	Calculated MW: 63 kDa, 37 kDa, 30 kDa	
	Observed MW: 63 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls: WB : HEK-293 cells, fetal human brain tissue, SGC-7901 cells, pig brain tissue, mouse brain tissue, HSC-T6 cells, ROS1728 cells, PC-12 cells, rat brain tissue, rat cerebellum tissue
Cited Applications: IF, IHC, WB	IHC : human heart tissue,
Species Specificity: human, mouse, rat, pig	
Cited Species: human, mouse, pig	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ST2, also known as IL1RL1, is a member of the IL-1 superfamily and serves as the receptor for IL-33. It plays a major role in immune and inflammatory responses. ST2 is expressed by various types of immune cells including Th2 cells, mast cells, type 2 innate lymphoid cells, eosinophils, basophils, NK cells, and non-immune cells, including cardiomyocytes. Two forms of ST2 exist: a membrane-bound form and a soluble form (sST2). The membrane-bound form activates the MyD88/NF-κB signaling pathway to enhance mast cell, Th2, regulatory T cell (Treg), and innate lymphoid cell type 2 functions. sST2 acts as a decoy receptor. (PMID: 27055914; 23999434; 28484466)

Notable Publications

Author	Pubmed ID	Journal	Application
Shuhei Kobayashi	33024217	Sci Rep	IF
Zuojia Chen	33220232	Immunity	IF
Elena Vianello	31316160	Sci Rep	WB,IHC

Storage

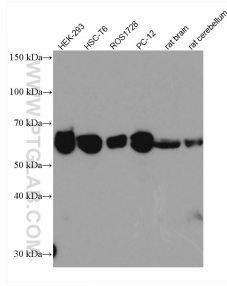
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

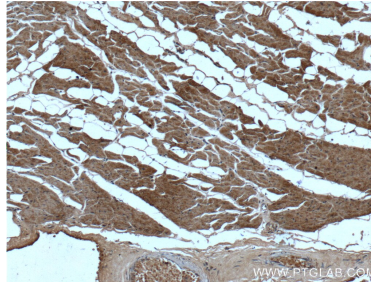
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

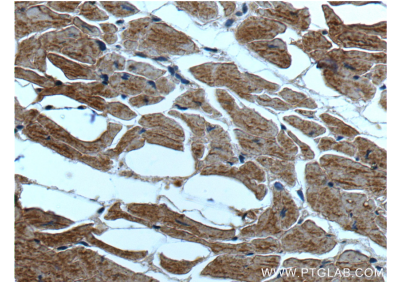
Selected Validation Data



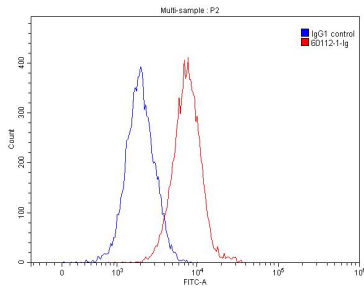
Various lysates were subjected to SDS PAGE followed by western blot with 60112-1-Ig (ST2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 60112-1-Ig (ST2 antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 60112-1-Ig (ST2 antibody at dilution of 1:200 (under 40x lens).



1X10⁶ HEK-293 cells were stained with 0.20ug ST2 antibody (60112-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.