

## STAT2 Rabbit mAb

Catalog No: #52866

Package Size: #52866-1 50ul #52866-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

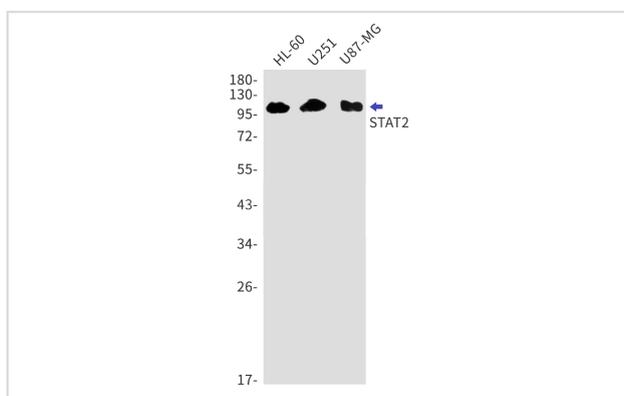
## Description

|                       |  |
|-----------------------|--|
| Product Name          | STAT2 Rabbit mAb   |
| Host Species          | Recombinant Rabbit   |
| Clonality             | Monoclonal antibody  |
| Clone No.             | S01-2F6  |
| Isotype               | IgG  |
| Purification          | Affinity Purified  |
| Applications          | WB   |
| Species Reactivity    | Human,Mouse  |
| Immunogen Description | A synthetic peptide of mouse STAT2   |
| Conjugates            | Unconjugated   |
| Modification          | Unmodification   |
| Other Names           | AW496480; 1600010G07Rik  |
| Accession No.         | Swiss-Prot:Q9WVL2GenID:20847   |
| Uniprot               | Q9WVL2   |
| GenID                 | 20847  |
| Calculated MW         | Calculated MW:105 kDa,Observed MW:113 kDa  |
| Concentration         | 0.3 mg/ml  |
| Formulation           | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA    |
| Storage               | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Application Details

WB: 1/1000

## Images



Western blot detection of STAT2 in HL-60,U251,U87-MG cell lysates using STAT2 Rabbit mAb(1:1000 diluted).Predicted band size:105kDa.Observed band size:113kDa.

## Background

---

Signal transducer and activator of transcription that mediates signaling by type I interferons (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. In addition, has also a negative feedback regulatory role in the type I interferon signaling by recruiting USP18 to the type I IFN receptor subunit IFNAR2 thereby mitigating the response to type I IFNs. Acts as a regulator of mitochondrial fission by modulating the phosphorylation of DNM1L at 'Ser-616' and 'Ser-637' which activate and inactivate the GTPase activity of DNM1L respectively.

---

Note: This product is for in vitro research use only