STAT3 Antibody (N-term)
Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20339a

Specification

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STAT3 Antibody (N-term) - Additional Information

Gene ID 6774

Other Names
Signal transducer and activator of transcription 3, Acute-phase response factor, STAT3, APRF

Target/Specificity
This STAT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-31 amino acids from the N-terminal region of human STAT3.

Dilution
WB ~ 1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
STAT3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

STAT3 Antibody (N-term) - Background

Signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes. Activated by IL31 through IL31RA.
Name STAT3 (HGNC:11364)

Function
t.org/citations/23084476" target="_blank">23084476</a>). Plays a crucial role in basal beta cell functions, such as regulation of insulin secretion (by similarity).

**Cellular Location**
Cytoplasm. Nucleus. Note = Shuttles between the nucleus and the cytoplasm. Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4. Constitutive nuclear presence is independent of tyrosine phosphorylation. Predominantly present in the cytoplasm without stimuli. Upon leukemia inhibitory factor (LIF) stimulation, accumulates in the nucleus. The complex composed of BART and ARL2 plays an important role in the nuclear translocation and retention of STAT3. Identified in a complex with LYN and PAG1

**Tissue Location**
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

**STAT3 Antibody (N-term) - Protocols**
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

**STAT3 Antibody (N-term) - Citations**
- [Roflumilast reverses polymicrobial sepsis-induced liver damage by inhibiting inflammation in mice.](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7298710/)
- [SOCS3 overexpression inhibits advanced glycation end product-induced EMT in proximal tubule epithelial cells.](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6765871/)