

Stat3 Polyclonal Antibody

Description

Product type Primary Antibody

Code BT-AP08630

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human STAT3. AA range:694-743

Mol wt 88068

Species reactivity Human, Mouse, Rat

Clonality Polyclonal

Recommended application WB, IHC-p, IF, ELISA

Concentration 1 mg/ml

Full name Stat3 Antibody

Synonyms STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

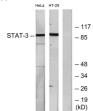
Signal transducer and activator of transcription 3 encoded by STAT3 is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Recommended Dilution

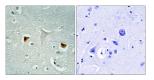
WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 IF: 1: 200 - 1: 1000 ELISA: 1: 10000

Not yet tested in other applications.

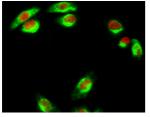
Images



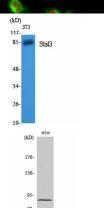
Western blot analysis of lysates from HeLa and HT-29 cells, using STAT3 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using STAT3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of Hela cell. 1,Stat3 Polyclonal Antibody(red) was diluted at 1:200(4° overnight). Caspase-8 Monoclonal Antibody(2G12)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 was diluted at 1:1000(room temperature, 50min).



Western Blot analysis of various cells using Stat3 Polyclonal Antibody diluted at 1:2000

Western Blot analysis of NIH-3T3 cells using Stat3 Polyclonal Antibody diluted at 1:2000

Storage

-20°C for one year

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com