

JAK2 (R683G)

Catalog Number: 26314

Gene Symbol: JAK2, JTK10, THCYT3

Description: Anti-JAK2 (R683G) Mouse Monoclonal Antibody

Background: JAK2 is a non-receptor tyrosine kinase. It is a member of the Janus kinase family and has been implicated in signaling by members of the type II cytokine receptor family, the GM-CSF receptor family, the gp130 receptor family, and the single chain receptors. JAK2 orthologs have been identified in all mammals for which complete genome data are available. Mutations of JAK2 have been implicated in polycythemia vera, essential thrombocythemia, and myelofibrosis as well as other myeloproliferative disorders.

Immunogen: A synthetic peptide from the internal region of JAK2 which includes the mutation of R683G, human origin.

Tested applications: ELISA, WB, IHC

Recommended dilutions:

ELISA: 1:1000-1:2000

WB: 1:500-1:1000

IHC: 1:50-1:100

Concentration: 0.5 mg/ml

Host: Mouse

Clonality: Monoclonal

Purity: Purified from ascites

Format: Liquid

Storage buffer:

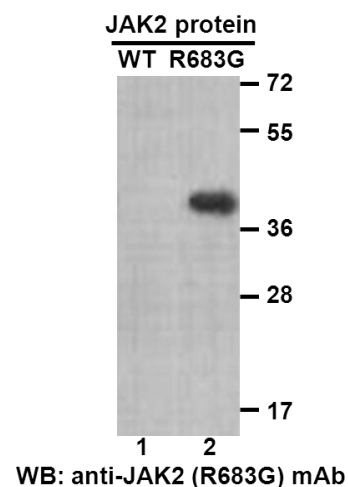
Preservative: no

Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes R683G mutant, but not wild-type JAK2 of vertebrates.

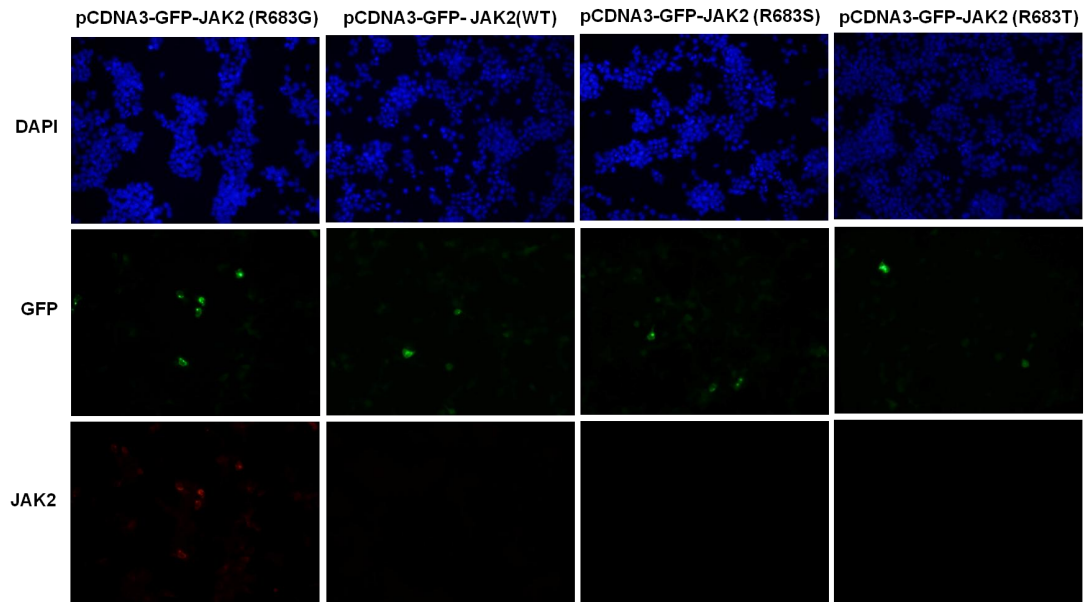
Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles.

Western blot:



Western blot analysis of recombinant JAK2 (R683G) and wildtype proteins. Purified His-tagged JAK2 (R683G) protein (lane2) and corresponding wild-type protein (lane1) were blotted with anti-JAK2 (R683G) monoclonal antibody (Cat. #26314).

Immunofluorescence:



Immunofluorescence of cells expressing JAK2 proteins with anti-JAK2 (R683G) antibody.

HEK293T cells were transfected with pCDNA3-GFP-JAK2 (R683G) plasmid, pCDNA3-GFP-JAK2 (WT) plasmid, pCDNA3-GFP-JAK2 (R683S) plasmid or pCDNA3-GFP-JAK2 (R683T) plasmid, then fixed and stained with anti-JAK2 (R683G) monoclonal antibody (Cat. #26314).