JAK2(R683G)

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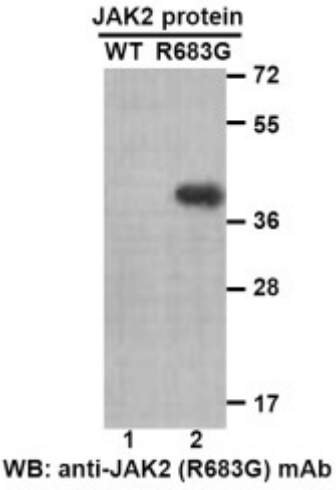
Cat. #: 26314
Size: 100 µL
Gene Symbol: JAK2, JTK10, THCYT3
Description: Anti-JAK2(R683G) Mouse Monoclonal Antibody
Background: JAK2 is a non-receptor tyrosine kinase. It is a number of the Janus kinase family and has been implicated in signaling by members of the type II cytokine receptor family, the 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 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.
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 Species: Mouse
Format: Liquid
Clonality: Monoclonal
Isotype: IgG
Purity: Purified from ascites
Preservative: No
Constituents: PBS (without Mg2+ and Ca2+), 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°C. Avoid repeated freezing and thawing

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC APPLICATIONS

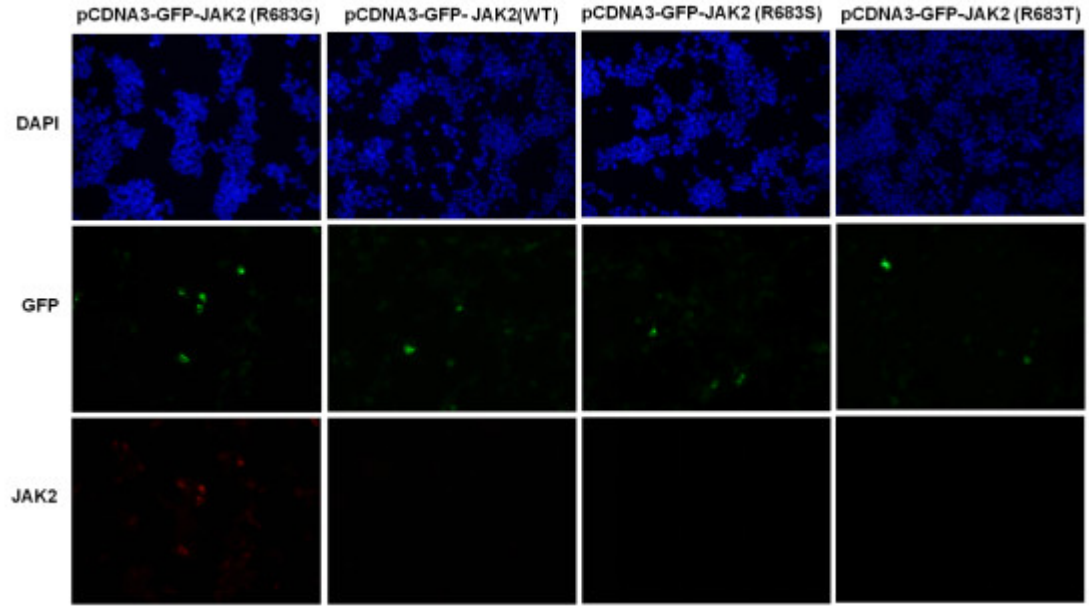


Western blot:

Western blot analysis of recombinant JAK2(R683G) and wild type 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).

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