

WB Quantitative and Diagnostic Kit for Human JAK2-V617F Mutation Real-time PCR

OUR CERTIFICATIONS

Our certifications

- ✓ ISO 13486:2016 certified
- ✓ ISO 9001: 2015 certified
- ✓ DPIIT (Govt. of India) certified
- ✓ Institutional Biosafety Committee (DBT)
- ✓ MSME Registered
- ✓ Trademark Registered with Trade Mark, Registry, Govt. of India

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GRANTS/AWARDS

- ✓ Biotechnology Ignition Grant Award-2013
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase-1 Grant -2015;
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase 2 Grant-2017
- ✓ Grand Challenge Explorations- Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Grant-2017
- ✓ DBS-NUS Social Venture Challenge Asia 2017 Finalist.
- ✓ BIRAC (Dept. of Biotechnology) Pre- Accelerator MedTech Challenge Grant-2021
- ✓ Fastest Growing Indian Company Award (2019) – International Achievers Conference, Bangkok
- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.

INTRODUCTION

- WobbleBase Quantitative and diagnostic Real-Time PCR kit is used for detection and quantification of somatic mutation V617F JAK2 gene in human genomic DNA.
- The detection principle is based on real-time PCR using fluorescently labeled probes and allele specific primers.
- The JAK2 enzyme is involved in the signaling pathway leading to blood cell production. Substitution of the amino acid valine for phenylalanine at position 617 leads to uncontrolled cell proliferation and survival of hematopoietic precursors.
- Somatic mutation occurs in most patients with diseases such as essential thrombocythemia and chronic idiopathic myelofibrosis.

KEY FEATURES

- Dual Labeled Taqman Probe: Harness the power of advanced molecular techniques with our dual labeled Taqman probe. This sophisticated probe ensures precise and reliable detection of the JAK2-V617F mutation, minimizing false positives and maximizing accuracy.
- Real-Time PCR Platform: Elevate your research with our state-of-the-art real-time PCR platform. Experience rapid and sensitive detection, allowing for swift analysis of samples without compromising on quality.
- Quantification of Allelic Burden: Dive deeper into the intricacies of JAK2-V617F mutation with our unique capability to quantify allelic burden. Gain invaluable insights into disease progression and treatment response, empowering informed decision-making in clinical settings.
- High Sensitivity and Specificity: Trust in our kit's exceptional sensitivity and specificity, ensuring reliable detection even in low-level mutant populations. Achieve unparalleled confidence in your results, setting new standards for precision diagnostics.
- Streamlined Workflow: Seamlessly integrate our kit into your laboratory workflow with its user-friendly design and intuitive

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✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

protocols. Save time and resources while maximizing efficiency in your research endeavors.

SPECIFICATIONS

Technology	Real-Time PCR with hydrolysis probes
Type of Analysis	Qualitative and quantitative
Target Sequence	JAK2-V617F mutation
Minimum concentration of DNA	2 ng/μL DNA
Analytical Specificity	100 %
Analytical Sensitivity (LoD with probability 95 %)	100%
Detected Genotype	Wild and mutant alleles
Controls	Negative control, positive control
Reporting Units	JAK2 Mutant and wild allele detected, not detected or inconclusive OR % JAK2 mutant allele detected
Validated specimen	Whole blood
Storage	-20 ± 5 °C
Required detection channels	FAM, HEX(VIC)
Instrument	Compatible with a wide range of real-time PCR device

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partner in
science**

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
JAK2Q/WBB/50	WB Quantitative Kit for Human JAK2-V617F Mutation Real-time PCR	50 reactions
JAK2Q/WBB/100	WB Quantitative Kit for Human JAK2-V617F Mutation Real-time PCR	100 reactions
JAK2D/WBB/50	WB Diagnostic Kit for Human JAK2-V617F Mutation Real-time PCR	50 reactions
JAK2D/WBB/100	WB Diagnostic Kit for Human JAK2-V617F Mutation Real-time PCR	100 reactions