# JANUS KINASE 2 (JAK2) V617F ALLELIC BURDEN TEST

## CLINICAL INFORMATION

Somatic Mutation of the JAK2 gene (JAK2 p.V617F) can be detected in a variable proportion of patients with myeloproliferative neoplasms. The JAK2 p.V617F mutation is observed in as much as 96% of the patients with Polycythemia Vera and approximately 55% to 65% of those with essential thrombocythemia and primary myelofibrosis. In addition, quantitative measurement of the JAK2 p.V617F allele burden (ratio of mutant allele to total allele) has been associated with certain clinical phenotypes, such as higher incidence of pruritus and splenomegaly and an increased risk of thrombosis in patients with PV & ET.

### KEY FEATURES

**JAK2 ALLELIC BURDERN RTPCR KIT**

- Easy-to-use reagents
- Complete **Allelic discrimination** and quantitative kit
- Validated on >2000 NABL samples.
- Validated with all major extraction and amplification platforms
- Designed for low to high throughput analysis
- Ultra-High Specificity & Sensitivity. **Detection Limit of 0.002**

### TECHNICAL INFORMATION

| PRODUCT CODE | STRUMBJAK50 |
|---|---|
| TEST/PARAMETERS | Janus kinase 2 (JAK2) V617F allelic Burden test |
| Principle of the test | Taqman 5'Nuclease Allelic Discrimination Assay |
| Type | Allelic Discrimination and Quantitation |
| Technology | Real Time PCR |
| Gene target | V617F |
| Range Detection | NA |
| Specimen | Blood |
| MGB Probe | Yes (n=2); 1=Wild allele; 2: Mutant allele. |
| Detection limit | 0.002 |
| Controls included | (1) Quantitation standards (n=4) - Wild allele |
| | (2) Quantitation standards (n=4)-mutant allele |
| Reporting unit | Copies/uL |
| Number of tests | 50 |
| Storage conditions | -20 Degree C |
| Validation platform | Rotorgene (Qiagen) |
| | Applied Biosystems |
| | Roche |
| Status | Research Use Only |
| NABL Samples Validated | Yes |

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