



**CPAL**

Central Pennsylvania Alliance Laboratory

# Technical Bulletin

No. 163

May 23, 2017

## Myeloproliferative Neoplasm Reflex Testing Pathway **--New Testing Panel--**

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**Effective Date: Immediately**

**Ordering Information:**

- **Lab Nexus CPAL Testing panel: MPN/CML Reflex Panel (MPNRCML)**

**Suggested Codes:**

Test	CPT Code	LOINC Code
JAK2	81270	48726-4
BCR/ABL FISH	88374	51867-0
MPL 515	81402	56142-3

**Panel test Components: JAK2, BCR/ABL FISH HOLD, BCR/ABL FISH, MPL 515**

Issued on: May 23, 2017

For questions about this and other information, call Central Pennsylvania Alliance Laboratory at 1-888-480-1422.

## Specimen:

- Peripheral blood or bone marrow collected in EDTA anticoagulant.
  - Preferred specimen volume is 3 mL
  - Minimum specimen volume is 2 mL
- Specimens should be transported and stored at 2-8 degrees C.
- The order for this test should be placed in the Lab Nexus ordering portal as MPN/CML Reflex Panel. Reflexive testing will be ordered by CPAL personnel.
- All specimens will be preserved for BCR/ABL FISH testing upon receipt to preserve specimen stability. A BCR/ABL FISH HOLD processing fee will be associated. This charge will only be applied in the event that BCR/ABL FISH testing is not indicated by a positive JAK2 result.

## Testing Schedule:

- **JAK2:** Monday through Friday. The testing schedule may be adjusted week to week to maximize workflow efficiencies. Expected Turn-Around-Time (TAT) is 1-3 days from receipt of specimens at CPAL.
- **BCR/ABL FISH:** Typically set up Mondays and Wednesdays, with cases posted in SoloWeb on Tuesdays and Thursdays. The testing schedule may be adjusted week to week to maximize workflow efficiencies. Expected Turn-Around-Time (TAT) is 2-4 days from completion of JAK2 testing.
- **MPL 515:** Monday through Friday. The testing schedule may be adjusted week to week to maximize workflow efficiencies. Expected Turn-Around-Time (TAT) is 1-3 days from completion of BCR/ABL FISH testing.

## Clinical Utility:

Testing implications and indications are previously described in technical bulletins relevant to the individual testing components of the panel. See Technical Bulletin 100\_ JAK2 and MPL 515 Mutational Analysis and Technical Bulletin 131\_ BCR/ABL t (9;22) Translocation by FISH.

## Methods:

JAK2: Quantitative real time PCR

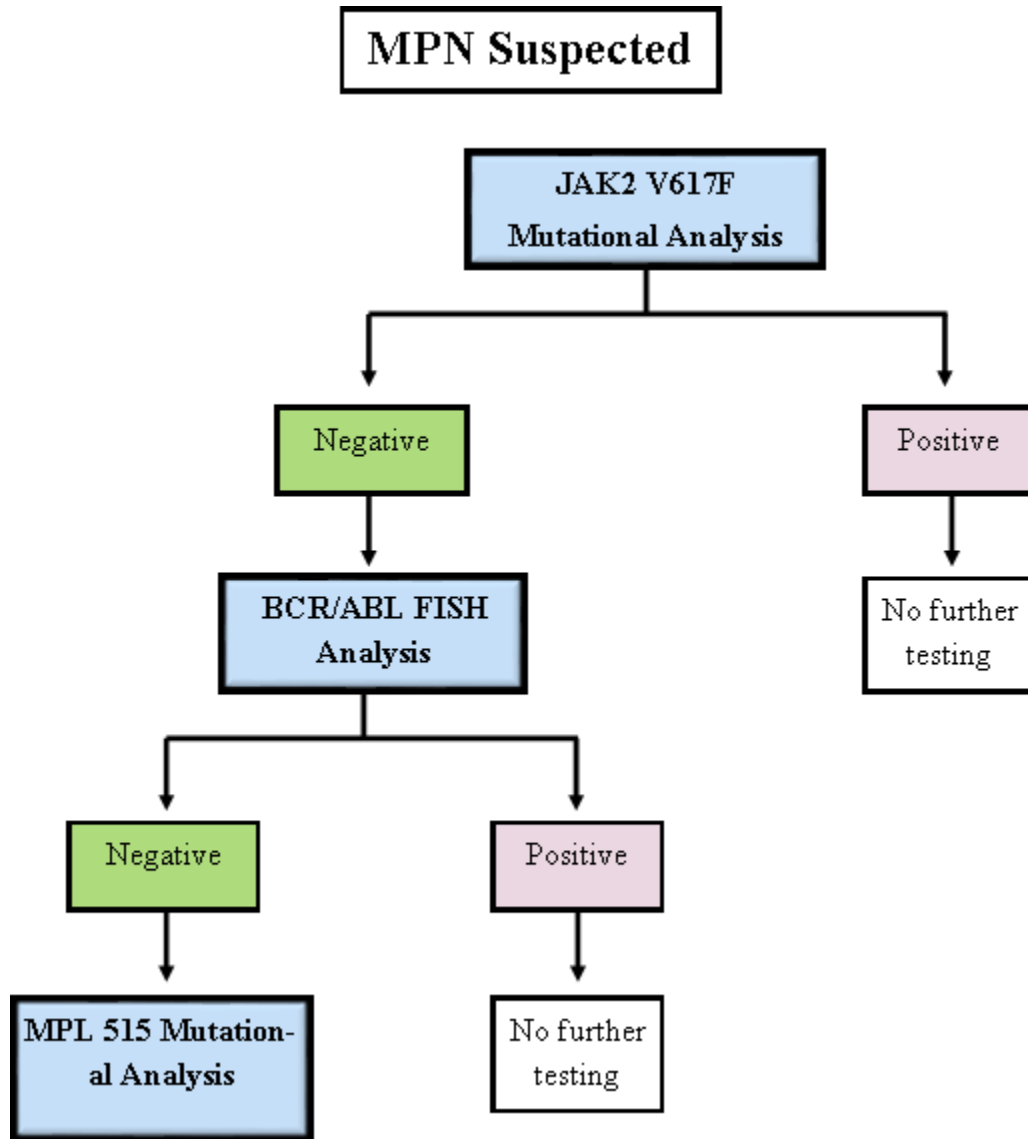
BCR/ABL FISH: Fluorescent In Situ Hybridization.

MPL 515: Qualitative real time PCR

Please see previously published Technical Bulletins as indicated for complete details.

**Reference Ranges/Interpretation, Clinical Background, Limitations of Procedure:**

Please see previously published Technical Bulletins as indicated for complete details.



**References (in addition to previously published sources):**

Pandey R, Kapur R: Targeting phosphatidylinositol-3-kinase pathway for the treatment of Philadelphia-negative myeloproliferative neoplasms; (2015). *Molecular Cancer*, 14:118.