

Reporting Title: Btk Protein Flow, B**Performing Location:** Rochester**Ordering Guidance:**

Bruton tyrosine kinase (BTK) protein and genetic tests are not meant for patients with hematological neoplasias on kinase inhibitor therapy, including but not restricted to the selective BTK inhibitor, ibrutinib. This test is only meant for the assessment of patients with a suspected monogenic primary immunodeficiency, X-linked agammaglobulinemia, caused by germline variants in the Bruton tyrosine kinase gene.

The preferred test for confirming a diagnosis of X-linked agammaglobulinemia in male patients and identifying female carriers is BTKFP / Bruton Tyrosine Kinase (BTK) Genotype and Protein Analysis, Full Gene Sequence and Flow Cytometry, Blood.

In families where a BTK variant has already been identified, order FMTT / Familial Variant, Targeted Testing, Varies.

Shipping Instructions:

Specimens are required to be received in the laboratory weekdays and by 4 p.m. on Friday. Collect and package specimen as close to shipping time as possible.

It is recommended that specimens arrive within 24 hours of collection.

Samples arriving on the weekend and observed holidays may be canceled.

Necessary Information:

Ordering physician's name and phone number are required.

Specimen Requirements:

Container/Tube: Lavender top (EDTA)

Specimen Volume: 4 mL

Collection Instructions: Send whole blood specimen in original tube. Do not aliquot.

Specimen Minimum Volume:

2 mL

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Ambient	48 hours	PURPLE OR PINK TOP/EDTA

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
89011	Btk Protein Flow, B	Alphanumeric		75708-8

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

88184

Reference Values:

Present

Bruton tyrosine kinase expression will be reported as present, absent, partial deficiency, or mosaic (carrier).