Lab Dept: Serology

Test Name: BORDETELLA PERTUSSIS IGG ANTIBODY

General Information

Lab Order Codes:	BPIGG
Synonyms:	Bordetella pertussis antibody
CPT Codes:	86615 x2 – Antibody; Bordetella
Test Includes:	Bordetella IgG antibody levels reported as PT IgG and FHA IgG reported in units/mL.

Logistics

Test Indications:	Levels of antibodies recognizing pertussis toxin (PT) and filamentous hemagglutinin (FHA) are typically increased following vaccination or natural exposure to Bordetella pertussis. This assay is not appropriate for assessing immunity to pertussis because the specific antibodies and antibody levels that correlate with protection have not been well defined. The indicated reference range values reflect the 95th percentile of antibody levels from blood donors; thus, antibody levels above the reference range are highly suggestive of recent infection or vaccination. Increased levels of FHA antibodies alone may represent cross-reactive antibodies induced by infection with other Bordetella species, Mycoplasma pneumonia, Chlamydophila pnuemoniae, or nonencapsulated Haemophilus influenza.
Lab Testing Sections:	Serology - Sendouts
Referred to:	Mayo Medical Laboratories (MML Test: FBDP, forward to Focus Test: 42250)
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	1 - 4 days
Special Instructions:	N/A

Specimen

Specimen Type:	Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 3 mL (Minimum: 0.75 mL) blood

Processed Volume: 1 mL (Minimum: 0.25 mL) serum

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens; specimens other than serum

Interpretive

Reference Range:

Bordetella pertussis Ig	
PT IgG	<45 IU/mL
FHA IgG	<90 IU/mL
This assay was developed and its performance characteristics have been determined by Focus Diagnostics. Performance characteristics refer to the analytical performance of the test.	

Critical Values: N/A

Limitations: Any serologic laboratory result should be interpreted in conjunction with other laboratory and clinical findings.

The cutoff has been determined using a local population. Population seroepidemiology may vary over time in different geographical regions.

Methodology: MAID (Multianalyte Detection)

References:

Mayo Medical Laboratories February 2018

Focus Diagnostics February 2018

Updates:

4/21/2004: Test moved from Specialty Laboratories to Mayo Medical Laboratories forward to Focus Technologies, Inc.
10/26/2004: Test changed from Mayo forward to Focus Technologies to being performed internally at Mayo. Please note change in values reported. Focus previously reported pertussis toxin (PT) and filamentous hemagglutinin (FHA) values for IgG, IgM and IgA. Mayo reports only one index value for IgG and IgM, each. Also note change in draw volume (previously 3.0 mL) and CPT coding (previously 86615 x6).
8/5/2008: Mayo discontinued serologic testing due to unavailability of assay kits and have begun forwarding the test to Focus Diagnostics.
10/24/2011: Reference range change at Focus. Previously listed as PT IgG <40 units/mL and FHA IgG <84 units/mL. Units change.
2/2/2018: Collection container update