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 95 th 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.</td>

2/2/2018: Collection container update