MPO Antibodies

Synonyms	Myeloperoxidase
Clinical Indication	Performed on samples with a positive ANCA pattern. ANCA testing is indicated in patients presenting with: • Glomerulonephritis, especially rapidly progressive glomerulonephritis • Pulmonary haemorrhage, especially pulmonary renal syndrome • Cutaneous vasculitis with systemic features • Multiple lung nodules • Chronic destructive disease of the upper airways • Long-standing sinusitis or otitis • Subglottic tracheal stenoses • Mononeuritis multiplex or other peripheral neuropathy • Retro-orbital mass • Scleritis Please note: All samples found to be ANCA IIF positive or to have an interfering ANA will be tested for the presence of MPO and PR3 antibodies. Autoimmune vasculitides including: • Granulomatosis and polyangiitis (Wegener's granulomatosis) • Microscopic polyangiitis • Crescentic glomerulonephritis • Eosinophilic granulomatosis and polyangiitis (Churg-Strauss syndrome) The assay should not be considered diagnostic and a definitive diagnosis should not be based on the results of this assay alone.
Part of Profile / See Also	ANCA positive samples have a pattern reported, and have MPO and PR3 antibodies measured.
Request Form	Combined Pathology manual Blood form or ICE request
Availability / Frequency of Analysis	Assay is run daily Monday to Friday
Turnaround Time	5 days
Patient Preparation	None required
Sample Requirements	*Please note a separate sample is required when Immunology tests are requested in addition to Biochemistry tests*
Specimen Type	Serum
Volume	2 ml
Container	 Yellow top (SST) tube

Or  Paediatric Yellow top (SST) tube

Reference Range & Units	Negative: 0 - 3.5 U/mL Equivocal: 3.5 - 5.0 U/ml Positive: >5.0 U/ml
Interferences	Heavily haemolysed or lipaemic samples are not suitable
Interpretation & Clinical Decision Value (if applicable)	A positive test for MPO antibodies and a positive p-ANCA are consistent with microscopic polyangiitis (60%), Granulomatosis and polyangiitis (<10% - Wegener's), Eosinophilic granulomatosis and polyangiitis (Churg-Strauss syndrome 50-80%) and Goodpasture's syndrome. MPO with p-ANCA may also be present in other autoimmune disorders, such as systemic lupus erythematosus, rheumatoid arthritis and Sjögren syndrome.
References	https://labtestsonline.org.uk
Test code	MPPR
Lab Handling	Aliquot and store at 4-8^{oC} prior to testing and at -20 ^{oC} or below for up to 1 month after receipt.