

\*Antigen may appear only on samples with low titers or negative by other assays for  
 HSP. Antigenemia is not applicable for samples derived from these species.  
**Antigen:** Specific human coronavirus (human coronavirus) fragment of coronavirus OC-4242E containing the S1/S2 region (residue  
 CA1849336-NE) present in respiratory epithelial cells or tissues or after its release present in secretions.  
**Intended Use:** Quantitative measurement of antigenic cell death in human plasma, lung, colon, breast, ovarian cell lines and of  
 carcinos 1 expressing CX18 in human blood samples.  
**Substrate:** Carboxyl-terminated polystyrene beads (CV4) coated with rat anti-human coronavirus OC-4242E antibody (residue CA1849336-NE) and  
 other antigens (residue CA1849336-NE) reactive material released from apoptotic CX18  
 positive cells.  
**Tests:** 96 wells, 96 tests (triplicate) per 480 test or 96 wells with available (pre-set) enzyme.  
**Performance Characteristics of the HSP (Antigenemia) ELISA**  
**Working Range:** 50 - 1,000 U/mL.  
**Detection Limit:** 30 U/mL in human serum samples.  
**Spillover Recovery:** 80-95%.  
**Intra-Assay Precision:** CV 4.5%.  
**Inter-Assay Precision:** CV 2.5%.  
**Sample Volume:** 2 x 25 µl.  
**Sample Stability:** Fresh samples at 4 °C for two days, at 20 °C for 3 months, at -80 °C for two years.  
**Assay Time:** 90 min (approx).  
**Conjugate Enzyme:** HRP (horseradish Peroxidase).  
**Substrate:** TMB 3,3',5,5'-Tetrahydroxybenzidine.  
**Expected Value:** Levels of CA1849336-NE (HSP) reactive material in serum of healthy donors:  
 Mean ± S.D.: 75.2 ± 28.4 U/L. Expected CA1849336-NE (HSP) levels in human sera  
 depend on time from and extent of exposure to CX18 positive cells.  
**Hook Effect:** High titer hook effect at 75,000 U/L, which is well above the concentration of CA1849336-NE (HSP) reactive  
 material obtained from human blood samples are **not** affected by Hepatitis C19 limit.  
**Interfering Substances:** The assay is **not** sensitive to high elevated bilirubin levels, which means the  
 highly hemolyzed samples can be assayed, although this is not recommended.  
**Storage:** 2-8 °C.  
**Kit Contents:** Reagents are color-coded and provided in a ready-to-use format.  
**Control Substrates:** One microtiter (96) wells, coated with a mouse monoclonal antibody to CX18.  
**MSD HSP Conjugate:** One vial containing 0.4 ml mouse monoclonal anti-CA1849336-NE (HSP) antibody conjugated with  
 horseradish peroxidase (HRP) in phosphate buffered saline solution.  
**MSD Substrate:** One vial containing 0.2 ml of TMB 3,3',5,5'-Tetrahydroxybenzidine solution.  
**MSD Assay Buffer:** One vial containing 0.5 ml assay buffer.  
**MSD Standard:** Four vials containing 0.5 ml MSD reactive standard material in Sample Diluent.  
**Control, Low and High:** Two vials containing 0.5 ml MSD reactive substrates in phosphate buffered saline  
 solution. Values of the MSD-2 control low and high are 100±10 U/L and 750±100 U/L.  
**Stop Solution:** One vial containing 50 ml concentrated 10% Thiazolide Solution.  
**Sample Diluent:** One vial containing 5 ml of phosphate buffered saline.



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