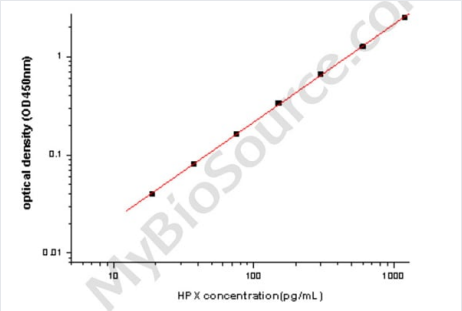
Hemopexin (HPX) ELISA Pair

PRODUCT OVERVIEW

Product Name	Hemopexin (HPX), ELISA Pair
Full Product Name	Hemopexin Matched ELISA Antibody Pair Set, Human
Product Gene Name	HPX elisa pair
Product Synonym Names	Human Hemopexin/HPX ELISA Pair Set; hemopexin; HX Matched ELISA Antibody Pair Set, Human
Assay Type	Quantitative Sandwich
Sensitivity	18.8 pg/ml
Specificity	Quantitative determination of Human Hemopexin
Preparation and Storage	Capture Antibody: Aliquot and store at -20 degree C to -80 degree C for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Detection Antibody: Protect it from prolonged exposure to light. Aliquot and store at -20 degree C to -80 degree C and for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Standard: Store lyophilized standard at -20 degree C to -80 degree C for up to 6 months from date of receipt. Aliquot and store the reconstituted Standard at -80 degree C for up to 1 month. Avoid repeated freeze-thaw cycles.
Materials Provided	1. Capture Antibody 1 mg/mL of mouse anti-Human Hemopexin/HPX monoclonal antibody (in PBS, pH 7.4). Dilute to a working concentration of 2ug/mL in PBS before coating. 2. Detection Antibody 0.4 mg/mL of rabbit anti-Human Hemopexin/HPX polyclonal antibody conjugated to horseradish-peroxidase (HRP) (in PBS, 50 % glycerol, pH 7.4). Dilute to working concentration of 0.5ug/mL in detection antibody dilution buffer before use.3. Standard Each vial contains 48 ng of recombinant Human Hemopexin/HPX. Reconstitute with 1 mL detection antibody dilution buffer. After reconstitution, store at -20 degree C to -80 degree C in a manual defrost freezer. A seven-point standard curve using 2-fold serial dilutions in sample dilution buffer, and a high standard of 1200 pg/mL is recommended.

Related Product Information for HPX elisa pair	Background: Hemopexin (HPX) is a serum glycoprotein responsible for the transport of haem to tissues such as liver, by receptor-mediated endocytosis, in an analogous manner to the iron transport protein transferrin, with recycling of intact haemopexin. Hemopexin binds heme with the highest affinity of any known protein. Its performs functions in scavenging the heme released or lost by the turnover of heme proteins such as hemoglobin, protects the body from the oxidative damage that free heme can cause. In addition, hemopexin releases its bound ligand for internalisation upon interacting with a specific receptor situated on the surface of liver cells, thus implicated in preservation of the body's iron. High hemopexin levels indicate that there has been significant degradation of heme containing compounds and hemopexin is made to scavenge any heme it can, and high hemopexin levels are therefore one of the test features of a hemolytic anemia. Hemopexin is an acute-phase plasma glycoprotein, produced mainly by the liver and released into plasma, where it binds heme with high affinity. Other sites of hemopexin synthesis are the nervous system, skeletal muscle, retina, and kidney. The only known receptor for the heme-hemopexin complex is the scavenger receptor, LDL receptor-related protein (LRP)1, which is expressed in most cell types, thus indicating multiple sites of heme-hemopexin complex recovery. Hemopexin is a heme-binding plasma glycoprotein which, after haptoglobin, forms the second line of defense against hemoglobin-mediated oxidative damage during intravascular hemolysis. A decrease in plasma hemopexin concentration reflects a recent release of heme compounds in the extracellular compartment. Heme-hemopexin complexes are delivered to hepatocytes by receptor-mediated endocytosis after which hemopexin is recycled to the circulation. Altered serum or plasma concentrations of hemopexin are found not only in hemolytic anemias but also in other conditions such as chronic neuromuscular diseases and acute intermittent porphyria. The test utility of hemopexin is less clear in other pathological conditions. Further studies are necessary to fully establish the clinical significance of hemopexin determination. Principle of the Assay: The ELISA Pair Set is a solid phase sandwich ELISA (Enzyme-Linked Immunosorbent Assay). It utilizes a monoclonal antibody specific for Human Hemopexin / HPX coated on a 96-well plate. Standards and samples are added to the wells, and any Human Hemopexin / HPX present binds to the immobilized antibody. The wells are washed and a horseradish peroxidase conjugated rabbit anti-Human Hemopexin / HPX polyclonal antibody is then added, producing an antibody-antigen-antibody "sandwich". The wells are again washed and TMB substrate solution is loaded, which produces color in proportion to the amount of Human Hemopexin / HPX present in the sample. To end the enzyme reaction, the stop solution is added and absorbances of the microwell are read at 450 nm. Intended Uses: The Human Hemopexin / HPX ELISA Pair Set is for the quantitative determination of Human Hemopexin / HPX. This ELISA Pair Set contains the basic components required for the development of sandwich ELISAs.
Other Notes	Small volumes of HPX elisa pair vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HPX purchase	MBS8118313 is an ELISA pair targeting HPX. Also known as Hemopexin Matched ELISA Antibody Pair Set, Human.



Typical Testing Data/Standard Curve (for reference only) of HPX elisa pair

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HPX. It may not necessarily be applicable to this product.

Protein Family	Hemopexin

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